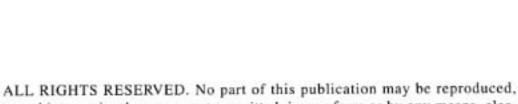
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Managing Fixed Income Portfolios



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Preface

Managing Fixed Income Portfolios provides comprehensive coverage of the key elements involved in the management of fixed income portfolios. The majority of the contributors to the book are bond portfolio managers. The book assumes the reader has a fundamental understanding of the features of fixed income securities and the various products.

The book is divided into four sections. Section I covers various interest rate risk measures. At one time managers focused only on level risk. Today, measures focus on the exposure to changes in the yield curve. Several of the chapters discuss the importance of this risk and alternative approaches to measuring yield curve risk. Section II explains how the inputs needed to construct a portfolio are generated. Section III describes the various active and structured portfolio strategies, as well as strategies between these two extremes. Management of high-yield corporate bonds, municipal bonds, mortgage-backed securities (residential and commercial), and corporate loans is covered in Section IV. The two chapters in Section VI provide comprehensive coverage of the management of international bond portfolios. The two chapters in Section VII discuss performance evaluation.

The insights provided by the contributors to Managing Fixed Income Portfolios will help you more effectively manage your bond portfolios.

Frank J. Fabozzi

A User's Guide to Buy-Side Bond Trading

Robert I. Gerber, Ph.D.

Senior Portfolio Manager Sanford C. Bernstein & Co., Inc.

INTRODUCTION

The mythic trader, living by his wits and betting vast sums on market fluctuations, does not work for an investment management firm (buy-side). Although he may flourish at a broker-dealer (sell-side), the odds are stacked against him on the buy-side. On the sell-side he is a market-maker, earning, rather than paying, the bid-ask spread on each transaction. Moreover, greater (limited) access to information about investor preferences creates opportunities (barriers) for the sell-side (buy-side) trader to exploit short-term market technicals.

The natural question is, what is buy-side trading? There is no simple answer, because traders do different things at different firms, and the distinction between research, portfolio management, trading, risk management, and compliance is often blurred. A common thread, however, does exist — traders gather and interpret market information, and execute transactions.

Upon learning this, a sell-side trader once commented to me, "Oh, you mean they're just order takers." To which I responded, "Yes, in the same sense that a golfer just hits the ball in the cup." Both are highly specialized and highly skilled, and both face complex challenges not easily understood by laymen.

The main purpose of this chapter is to discuss some of the complexities of buy-side trading. What are the relative advantages of an instantaneous auction, a bid list and a sale order? Does market liquidity or volatility matter? What

¹ The terms "buy-side trader" and "investor" are used interchangeably, as are the terms "sell-side trader" and "broker-dealer."

² Certainly, buy-side traders also have some advantages, such as partial access to dealer inventories. A detailed comparison, however, of the relative advantages of buy- and sell-side traders is beyond the scope of these discussions.

³ In the language of a strategic game, how should you construct the game, what are the optimal strategies of the players, and what is the game's solution?

I would like to thank Fred Cohen, Sloane Lamb, Elaine Mintzer, Walter Prahl, and Frank Trainer for their insightful comments on an earlier draft. This chapter is dedicated to the memory of William S. Vickrey — a gentleman and a scholar whose ideas inspired generations of his students.

should you expect from sell-side traders? What is your optimal strategy? How much can you hope to gain from a job well done?

MARKET CONDITIONS

Selecting the best buy-side trading strategy is very difficult. It depends on numerous factors, many of which are intangible. Although there is no adequate substitute for an experienced trader, one axiom certainly applies — market conditions matter a great deal, and often in a predictable way. In this context, it is useful to consider two market extremes: liquid and illiquid.

Although liquidity is somewhat in the eye of the beholder, a liquid market can generally be defined by small bid-ask spreads which do not materially increase for large transactions. These conditions make liquidity the financial-market equivalent of perfect competition in the goods economy. In a perfectly competitive market, consumers and producers have no individual influence on price. Likewise, the sell-side trader's influence over price declines with financial-market liquidity. Nonetheless, complications — such as imperfect information and realtime execution — make trading skills valuable even in a very liquid market. A good buy-side trader might add a couple of basis points in return by choosing the optimal bidding process and closing the transaction.⁴

Illiquid markets pose somewhat different challenges. Acquiring reliable information becomes much more difficult because securities are typically less homogeneous and are infrequently traded. Moreover, the cost of ignorance can be great, as the notion of a market clearing price is not well defined. Executing a transaction might take days, rather than seconds, and can resemble the mating ritual of a praying mantis. Under some circumstances, enhanced information and negotiating skill can add a few percentage points to a transaction.

Exhibit 1 provides indicators of market liquidity for a cross-section of the fixed-income universe. Bid-ask spreads are estimated for typical and distressed conditions, because the liquidity of a particular market can fluctuate. For example, the bid-ask spreads on Fannie Mae Trust Interest-Only Strips (IOs) have ranged from less than 0.5% to more than 5%. In light of this variability, identifying the determinants of liquidity becomes important.

FACTORS INFLUENCING LIQUIDITY

Market liquidity is defined in terms of bid-ask spreads. The exact meaning of "bid-ask spread," however, is open to interpretation. For the sake of exposition,

⁴A couple of basis points per trade can add up; if annual turnover were high on liquid investments (say, 2½ times), this would translate into 5 basis points in performance. Although this figure seems small, it is significant in light of the fact that a bond manager need outperform the market by only about 75 basis points a year in order to be ranked in the top quartile.

suppose that on November 27, 1996, four broker-dealers simultaneously bid (to buy) and offer (to sell) \$100 million Freddie Mac 7.0% Gold PCs for delivery on December 11, 1996 (Exhibit 2).

Prices are quoted in terms of points (\$ per bond with \$100 face value) and 32nds of a point (called ticks), where + denotes one-half of one 32nd. Dealer 1 is willing to buy the bonds at a price of 99 points and \(\frac{4}{32}\), and sell them for a price of 99-06. The dealer might view this two-tick difference in his bid-to-offer price as the bid-ask spread. From a market perspective, however, the bid-ask spread is one tick: the difference between the highest bid (99-05, by Dealer 4) and the lowest offer (99-06, by Dealers 1 and 3).\(^5\) In this example — one from a very liquid market — the two measures of bid-ask spread arrive at almost the same value. For an illiquid market, the result can be quite different.

Exhibit 1: Indicators of Market Liquidity

	Market Size	Bid-Ask Spr	reads (% price)
	(\$ billions)	Typical	Distressed
Mortgage-Backed Securities (MBS)			
Fixed-Rate Generic	1,500	0.06	0.25
ARM	150	0.13	0.38
Companion CMO	260	0.50	1.50
IO Strip	70	0.63	5.00
Treasuries			
Bills	760	0.002	0.005
On-the-Run Notes and Bonds	70	0.03	0.06
Off-the-Run Notes and Bonds	2,760	0.06	0.09
Corporates (Intermediate)			
A Finance	130	0.12	0.50
B Industrials	80	0.50	5.00
Municipals (Long)			
Aa/Aaa	1,300	0.25	0.75

Source: Salomon Brothers, Lehman Brothers, and Sanford C. Bernstein estimates

Exhibit 2: Identifying Bid-Ask Spreads

Price	Dealer 1	Dealer 2	Dealer 3	Dealer 4
Bid	99-04	99-04+	99-04+	99-05
Offer	99-06	99-06+	99-06	99-07+

⁵ Although the market bid-ask spread is theoretically well defined (best bid minus best offer), in practice it can be somewhat ambiguous. As discussed later, it may be desirable to limit the number of potential counterparties in a transaction. Absolute certainty that the best bidder or offerer has been included is therefore not possible.

Dealer competition is a requisite for a liquid market. Without it, dealers can usually widen their bid-to-offer price in the natural pursuit of profits. The lure of stable trading profits — large markets, modest entry costs, and low security volatility (good hedging vehicles) — serves as a magnet for dealer competition. Markets for complex, heterogeneous securities tend to violate all three conditions. These securities are often volatile and difficult to hedge and therefore have very high research and distribution costs. Some mortgage derivatives — such as IOs and inverse floaters — fall into this category. Researchers, elaborate databases, computer systems, and a knowledgeable sales force are all necessary to successfully compete in this arena. Not all derivatives, however, are illiquid. For example, many interest rate derivatives, such as futures, swaps and caps, are much easier to hedge and require neither a significant research commitment nor a large scale distribution network. In fact, although some interest rate derivatives appear to be complex, they can often be reduced to a bundle of simpler instruments.

Markets for heterogeneous, complex securities tend to be illiquid for another reason as well. By their very nature, these markets cannot have a single price to signal aggregate investor preferences. Information is therefore much more diffuse and must be imprecisely inferred via recent trades of similar securities and conversations with potential investors. As a result of this uncertainty, rational sell-side traders will widen their bid-to-offer spread in order to avoid the "winner's curse."

The "winner's curse" describes the tendency for a competitive auction — a public sale of any security to the highest bidder — to produce sale prices in excess of an asset's value. Understanding an auction's impact on the behavior of sell-side traders is the first step in selecting optimal buy-side trading strategies.

WINNERS, COVERS, AND BID-ASK SPREADS

Traders try to avoid the winner's curse. Suppose five sell-side traders are bidding on a bond worth 95-00, but because their information is imperfect they don't know its true value. They do know, however, that winning the auction is tantamount to tendering the highest bid. Moreover, because professional traders' expectations are unbiased (over many auctions, they average close to the true value), ¹⁰ the winners' subjective valuation will tend to exceed the true value. Sell-side traders therefore know that they must shave (raise) their bid (offer) or risk overpaying (underselling)

⁶ As illustrated in Exhibit 2, increased dealer participation (certainly in excess of one) also tends to reduce bid-ask spreads by increasing the chance that the best bid or offer will improve.

Interest rate volatility, which is relatively easy to quantify and hedge, is the dominant source of risk.

⁸ For a detailed discussion of the winner's curse, see Richard H. Thaler (ed.), The Winner's Curse: Paradoxes and Anomalies of Economic Life (Princeton, NJ: Princeton University Press, 1992).

⁹ Due to its importance to the fixed-income markets, the Treasury Auction — the sale of newly issued government securities — is sometimes referred to as "The Auction." In all the following discussions, the more general usage is intended.

¹⁰Otherwise, they would go out of business, because they would consistently lose money by overpaying for securities or miss trades by underbidding.

for the security. The larger the number of participants and the greater the uncertainty surrounding the true value, the more hazardous the auction. 11 Exhibit 3 provides the results from a series of simulations in which security valuations are drawn from a normal distribution centered around the true

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value (95-00). Each entry - based on 1,000 simulations - differs only by the number of participants in the auction and the standard deviation perceived by the traders. For example, the entry in the first row and column states that, in two-participant auctions in which trader opinions have a standard deviation of 0.25

points, the average high valuation is 0.14 points above the true value. The marginal impact of additional participants is at first large, but diminishes rapidly. For example, the probability of the tenth participant's valuation exceeding the first nine is much lower than that of the third participant's exceeding the first two.

However, the marginal impact of market uncertainty - as we move from left to right does not taper off. Intuitively, the probability of a high valuation (expressed in terms of standard deviations) is constant. As a result, high valuations (expressed as absolute increases over the true value) increase proportionally with uncertainty. For example, the entries in the fourth column - 1 point standard deviation - are about four times the magnitude of those in the first column - 1/4 point standard deviation.

the expected difference between the mean high (low) valuation and true value.12

The rational sell-side trader will cheapen (richen) his bid (offer) by at least

1.00

0.56

0.84

1.03

1.15

1.25

1.41

1.55

1:50

0.85

1.26

1.56

1.72

1.89

2.11

2.31

0.75

0.42

0.63

0.76

0.85

0.95

1.07

1.13

Otherwise, he can expect to lose money trading. For instance, in a three-person auction where the perceived standard deviation is 0.25 points, the high valuation tends to exceed the true value by 0.21 points. Trader rationality therefore requires bid reduction by at least this amount. The larger the auction, therefore, the more traders will tend to cut their bids. In this regard, increasing competition may seem to have no impact on sale price, because each time the number of bidders grows, the individual bids are further reduced to neutralize the heightened danger of the winner's curse. 13 Exhibit 3: The Winner's Curse Standard Deviation (points)

3

4

5

6

8

10

Participants (#)

1.74 2.62 0.440.86 1.34 15

0.50

0.28

0.42

0.53

0.58

0.63

0.71

0.80

0.25

0.14

0.21

0.26

0.30

0.31

0.36

0.38

¹¹ In fact, sell-side traders routinely ask the buy-side trader to reveal the number of participants in the auction. ¹² In statistical terms we can think of the winning bid as the highest order statistic of independent draws of a random variable. The expected value of the highest (winner) and second highest (cover) order statistic and

the random variable (true value) refers to the values being discussed. ¹³ Unless, of course, bidders are consistently and successfully deceived about the number of other participants — an unlikely possibility.

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Exhibit 4: Uncertainty, Auction Size, and Anticipated Cover

Standard Deviation (points)

	-	*****	A COLUMN	COLUMN TO A	Juntar
Participants (#)	0.25	0.50	0.75	1.00	1.50
2	0.28	0.56	0.84	1.12	1.70
3	0.21	0.42	0.63	0.84	1,26
4	0.17	0.37	0.56	0.73	1.10
5	0.17	0.33	0.48	0.67	1.00
6	0.15	0.31	0.46	0.60	0.94
8	0.14	0.27	0.43	0.58	0.90
10	0.13	0.29	0.40	0.56	0.79
15	0.12	0.24	0.38	0.49	0.78

Competition, however, can systematically raise bids because it reduces

sating for the winner's curse) and still win the auction. After the auction has taken place, the realized difference between the winner and the second highest bidder is called the "cover." Bargaining leverage is the a priori analog of the (ex post) cover and is, therefore, sometimes referred to as "anticipated cover."

The anticipated cover is shown in Exhibit 4 to be decreasing with the number of participants and increasing with the asset's perceived volatility. Intuitively, the greater the number of participants with similar opinions, the less likely that the winner's valuation will significantly exceed the second most aggressive

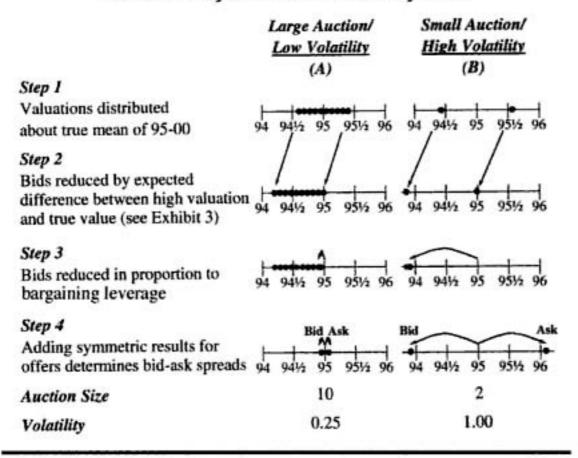
the bargaining leverage of individual broker-dealers. "Bargaining leverage" refers to the amount by which the winner believes he can lower his bid (after compen-

number of participants and increasing with the asset's perceived volatility. Intuitively, the greater the number of participants with similar opinions, the less likely that the winner's valuation will significantly exceed the second most aggressive bidder. A profit-maximizing trader trying to just outbid the second highest bid will lower his bids as his bargaining leverage increases. Taking into account rational sell-side trader behavior, the process by which auction size and uncertainty determine market liquidity (bid-ask spread) is illustrated in Exhibit 5.

Step 1 of Exhibit 5 provides a distribution of valuations for two environ-

ments. Column A describes a very liquid market — many participants with similar opinions (represented by dots along the line). Column B depicts an illiquid market. In Step 2 all the valuations are adjusted downward (translated to the left) by the amount by which traders expect the average high valuation to exceed the true valuation, over many identical auctions. Note that in both auctions (Columns A and B) the true value and high adjusted valuation are equal to 95-00. Although this result will certainly not occur in all circumstances, it should hold on average as traders alter their valuations to the auction's characteristics. As illustrated in Step 3, bids will be reduced below the adjusted valuations, in relation to the trader's bargaining leverage — the greater the anticipated cover, the lower the ultimate bid. The expected difference between the true value and the winning offer price in a purchase auction can likewise be derived. In Step 4, the equilibrium bid-ask spread results from combining the expected winning bids and offers.

Exhibit 5: Equilibrium Bid-Ask Spreads



The missing piece in determining equilibrium bid-ask spreads is the amount of the surplus (due to bargaining leverage) that sell-side traders will systematically attempt to extract. 14 In theory, traders might try to extract anywhere from a small fraction to a multiple of the surplus. Traders would limit their attempts to extract the surplus if they believed that these attempts significantly increased the odds of losing the trade. Alternatively, traders would attempt to extract a large multiple of the surplus if they believed that all other traders were doing likewise and that, therefore, the bid necessary to win the trade was actually much lower than rational valuations would indicate. Absent other compelling reasons (such as the need to cover a short position), neither of these are frequent occurrences. From the trader's vantage point, there is little to lose in attempting to extract some surplus, because it is not (yet) a profitable trade. As the trader extracts greater amounts of the surplus, the trade becomes increasingly profitable, and further attempts are increasingly risky. In practice, it seems as though traders often attempt to extract the entire surplus, but not much more. As shown in the appendix, extracting the entire surplus is the optimal strategy under certain mathematical conditions.

¹⁴ In the common vernacular, they will attempt to leave as little money on the table as possible.

AUCTION DESIGN FOR A LIQUID MARKET

The results of the preceding section argue that increasing the auction size improves buy-side execution by reducing the temptation for the broker-dealer to shave his bid. Although there is no disputing this conclusion, the potential benefit from increasing the auction beyond a handful of participants is often quite small. For instance, consider a generic par-priced mortgage passthrough (with a standard deviation of about 0.25 points). As shown in Exhibit 4, adding the third bidder reduces the anticipated cover by 0.07 points to 0.21 points. Adding the next 5 bidders reduces the anticipated cover by an additional 0.07 points. Moreover, even for a liquid security there are rarely more than a half dozen or so contending counterparties. It is the job of the buy-side trader to know their identity.

Large auctions do have their disadvantages. As the number of competitors increases, the time required to gather the bids (or offers) increases; in turn, this raises exposure to market volatility, which introduces uncertainty about best price. Transactions are not final until a bid is accepted and confirmed. The greater the time between bid and acceptance, the less certain the confirmation. There are a variety of potential solutions to this problem (e.g., multiple traders, spread trades versus a reference Treasury benchmark, hedging), but these solutions have associated costs that must be weighed against the benefits.

Our experience suggests that the optimal auction for a liquid security is usually three to five participants. It provides a good balance between timely execution and a small cover. Real time execution, however, creates another opportunity for the highest bidder to lower his price: trade confirmation.

Once bids have been tendered, the buy-side trader identifies and accepts the highest price. It is then up to the bidder to confirm the price. Even in the absence of any market movements, the bidder has an immediate incentive to lower his bid, because he knows that it must have been the highest. If real time frictions were not an issue, and if bonds traded in infinitely small price units, there would be only a small incentive for the sell-side trader to lower his bid price, because he has already selected his optimal bid and lowering the price further would increase the probability that the trade would fall through. These complications, however, provide the would-be winner an opportunity to lower his bid by the minimum amount in which the particular bonds trade. For instance, mortgage passthroughs trade in units of a + $(\frac{1}{64})$. As a result, the winner has the incentive to lower his bid by that amount. Theoretically, although this type of behavior (opportunistic rebidding) doesn't necessarily affect execution, 15 it can in practice.

¹⁵ If traders raise their initial bid by a +, realizing that they will lower their bid by a + at confirmation, there is no net effect. Due to the conventions of trade confirmation, however, this type of behavior is somewhat unlikely. If the last bid to arrive is the best, the buy-side trader can immediately accept it, with confirmation essentially guaranteed. Sell-side traders are reluctant to admit to opportunistic re-bidding, and it is difficult to attribute a bid change to external factors when acceptance is immediate.

Only a minority of sell-side traders seem to display this sort of behavior. It complicates the trade and jeopardizes its completion, all for a modest and uncertain gain - on the order of a + for mortgage passthroughs (\$15,625 on a \$100 million transaction). Moreover, buy-side traders can discourage re-bidding by reducing its profit potential. For example, bids can be sequentially requested with habitual re-

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bidders put last in the queue, thereby increasing the odds of an instantaneous acceptance (confirmation virtually assured) when the best price is tendered. In addition, buy-side traders can declare that ties will not be awarded to opportunistic re-bidders. Nonetheless, opportunistic re-bidding cannot be completely eliminated. AUCTION DESIGN FOR AN ILLIQUID MARKET

The main goal of the buy-side trader is to achieve best execution. With liquid

(homogeneous) securities, this amounts to encouraging competition without unduly increasing transaction time. There is no fundamental difference between a purchase and a sale. Bids or offers are tendered for essentially identical securities. Illiquid16 securities, however, are often heterogeneous and, although this does not affect sale mechanics (you can still request competitive bids for the particular security), it does affect purchases because only one dealer will typically be able to offer any particular security. Although the basic conclusion about the desirability of competition still holds, other considerations are also important, and sales and purchases must be separately examined.

Sales can be conducted, much like those for liquid securities, as an instantaneous auction. A much larger standard deviation of the true asset value, say on the order of 1.5 points, would suggest a very large auction size. As shown in Exhibit 4, bargaining leverage doesn't really level off until the auction reaches a size of about 10 bidders — a seemingly unwieldy number. The benefits and costs of a large auction, however, are not as great as is indicated by a liquid market.

Competition does not increase commensurately with auction size because, in most cases, there are only a few genuine competitors in these markets. As a result, the level of competition in an instantaneous auction is limited. Sellside traders understand market conditions and act accordingly - they attempt to exploit their bargaining leverage.

Although an experienced buy-side trader will have a good notion of the best competitors' identities, a larger auction sometimes produces a surprising winner due to a special interest in a particular bond. 17 Fortunately, the problems associated with a large auction do not usually increase much with illiquid securities - as long as they are hedged. Transaction time may increase and execution might erode somewhat with uncertainties concerning best price. The possible loss

^{16 &}quot;Illiquid" refers to the entire continuum of bonds that are not classified as liquid.

¹⁷ In the municipal market, it is not always possible to identify the best competitors in advance, and so it is often desirable to cast a wide net.

55-ma Doc 8510-2 Filed 04/20/10 Entered 04/20/10 17:00:55 Exh Pa 16 of 136 of a couple of 32nds, however, is dominated by the possible gain from a surprise winner - sometimes on the order of a half point or more. Of course, common

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The greatest expected gain in an illiquid transaction may be achieved not by increasing auction size, but by decreasing trader risk (asset value uncertainty). As shown in Exhibit 4, lowering risk reduces bargaining leverage by concentrating secu-

release of economic news

sense argues for avoiding times of heightened market volatility, such as the

Allowing bidders the opportunity to broker the bonds can essentially elim-

inate their risk. There are two common ways of brokering bonds - a sale order and a bid list. A sale order is an exclusive agreement in which the investor will sell a bond to the dealer at or above some reservation (minimally acceptable) level. A bid

rity valuations. Moreover, risk reduction also lowers the return requirements (raises

the bids) of traders. These are not material considerations for liquid markets in which traders have timely and accurate information and a very short holding period - risk is already close to a minimum. Quite the opposite is true for an illiquid market.

list is a delayed (rather than instantaneous) auction. Both provide dealers the

opportunity to collect bids from potential investors, and thereby shift risk to the ultimate purchaser. The beneficiary of the risk transfer, however, differs by method. There are two advantages of a bid list - risk reduction and competition.

Bid-ask spreads can, at times, be reduced to those of a liquid market. A sale order,

however, lacks the advantage of direct competition; as a result, transaction prices rarely exceed the reservation level, because brokers extract the surplus. In order to achieve a good execution level, the buy-side trader must have exceptionally accu-

rate information when setting the reservation level and selecting the broker. Heroic information requirements, together with broker incentives to extract some surplus, make sale orders a much less effective sale mechanism than bid lists for most MBS and municipal bond sales.

Why would a sale order ever be the preferred course of action? It can be argued that in some instances the inclusion of several brokers, as in a bid list, can

erode execution. Dealers will approach their clients, the ultimate investors, with suggested bid levels based upon their (possibly unique) read of the market. Most institutional investors will be contacted by several dealers. Some investors will

select the dealer (and the bid) with a low suggested bid level, even though they might be willing to pay more for the security - a practice that can reduce trans-

action price - in order to avoid the winner's curse. Including only well informed participants on the bid list is one way to limit this sort of price erosion. For these reasons, as well as for the fact that they comprise a much less diverse universe (information is more readily available), making it easier to ascertain the level at

which they should trade, a sale order is often the preferred course for corporate bonds. In general, however, it is probably better to err on the side of including too

many than too few participants. 18 18 Hybrid strategies such as bid lists with a reservation level can be used to mitigate the potential hazards of a bid list.

One exception to the "more is better" rule about bid lists versus sale orders does exist. Very complicated securities sometimes require a significant amount of time and effort to sell. A sale order might be necessary to attract the appropriate effort from a broker. In these circumstances market knowledge and negotiating skill determine execution price.

The perception of competition is also valuable when buying illiquid securities. Because the available supply of similar securities is often limited, dealers need not necessarily offer the best price to sell their bonds. It is therefore usually not in the buyer's best interest to shatter the illusion of competition by revealing a large demand. As with a very illiquid sale, purchase price may be most sensitive to negotiating skill and the quality of information.

Benefiting from the reduction in dealer risk is much less likely when buying illiquid bonds. Once the dealer owns the bonds, he has already placed his capital at risk and is therefore reluctant to sell them at razor thin margins. Moreover,
when buying off a bid list, you are much more likely to suffer from the winner's
curse than benefit from the lower bid-ask spreads. The optimal strategy, in that
case, mirrors that described for the rational trader of a liquid product.

THE LONG-TERM RELATIONSHIP

Individual transactions are part of a long-term relationship. Trades must therefore be viewed in a broader context. As with any other relationship, people get to know some of each other's behavior patterns pretty well. For competitive auctions, the import of this knowledge is limited. With negotiations, however, long-term credibility becomes important. Tactics such as bluffs and threats must be used prudently and with the understanding that misuse may have consequences for future transactions and the relationship at large.

A satisfactory relationship serves both dealer and investor. The investor can benefit from a combination of liquidity, research, and other information (e.g., security pricing). Incremental competition is particularly valuable for trading illiquid securities. Dealers profit by making bid-ask spreads, which increase with their participation in transactions. As a general guideline, dealers have a strong incentive to encourage the relationship, especially because the marginal cost of providing research and other information is usually very low.

Incentives to the contrary, conflict can arise because each trade is a zerosum game. Moreover, dealers are populated by many specialists — trading different securities — who are focused on their individual profitability. Some specialists at the same dealer may be much less interested in sustaining the long-term relationship than their colleagues. As a result, dealers provide investors a firmwide representative (salesperson) who serves as the intermediary between the buy-side and sell-side traders.

The goal of the salesperson is to maximize dealer long-term profits by increasing participation in transactions, making terms more favorable to them

(e.g., sale orders), and minimizing disputes. It should be realized that the salesperson represents the dealer, not the investor. Although the two parties' interests sometimes coincide, trade execution may not be the place.

SUMMARY

Competition holds the promise of enhanced buy-side trade execution, especially for volatile securities. In order for that promise to be fulfilled, the competition must be genuine. Unfortunately, increasing the number of broker-dealers in an auction does not necessarily elevate the level of competition — incremental benefits diminish with increased auction size, and not all broker-dealers have equally informed traders.

Excessive auction size can have deleterious effects, such as execution delays and adverse price selection by the ultimate investors. Adverse selection occurs when several broker-dealers solicit interest from the same client, and that client chooses to tender the lower price. On the other hand, allowing broker-dealers to shift risk to their clients can enhance execution, because the broker-dealers are not placing their firms' capital at risk, and therefore they require lower expected profits from the trade. The objective of the buy-side trader is to balance these considerations. In practice, the optimal trade-off differs by market.

APPENDIX

An optimal bidding strategy is derived for an auction with two bidders (called 1 and 2). Both have an unbiased opinion (X_i) of the bond's value, uniformly distributed over an interval of unit length. Moreover, both bidders know that there is one other participant with an identically distributed opinion. As a result, trader i believes the other trader's opinion is uniformly distributed over the interval $X_i \pm 0.5$.

Each trader will select an optimal amount (S_i) by which he will reduce X_i in deriving his optimal bid (B_i) . Optimality is defined by the strategy that maximizes the expected profits (π_i) . Profits only materialize when a bidder wins, and are thereby diminished by the winner's curse. Expressed in mathematical terms, the expected profit (gross of winner's curse) for bidder i is:

$$\pi_i = \max_{S_1} \int_{X_1 - \frac{1}{2}}^{X_1 - S_1 + S_2} S_1 dX_2 \tag{1}$$

The profit maximizing conditions solves the normal equation,

$$\frac{d}{dS_1}(S_1 \times (S_2 - S_1 + \frac{1}{2})) = 0 \tag{2}$$

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The optimal strategy is therefore,

 $S_1^* = \frac{S_2}{2} + \frac{1}{4}$

As shown in equation (3), the optimal strategy for trader 1 depends upon

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(3)

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the optimal choice of trader 2, S2. An equilibrium 19 occurs when both traders are simultaneously satisfied with their strategy, given the other's strategy. Because these traders are essentially identical, this occurs when $S_1 = S_2 = 0.5$. The optimal strategy can be decomposed into two parts: (1) the expected cost of the winner's curse and (2) the use of bargaining leverage.

The expected cost of the winner's curse can be calculated as the difference between the expected valuation by the winner (second order statistic) and the expected true value of the security (µ). These are: $\mu = \int_{0}^{1} x \, dx = \frac{1}{2}$

$$E(\max(X_1, X_2)) = \int_0^1 2x^2 dx = \frac{2}{3}$$
 (4)

The expected value of the winner's curse is therefore $\frac{1}{6} = (\frac{2}{3} - \frac{1}{2})$, and the use of bargaining leverage is equal to $\frac{1}{3} = (S_1 - \frac{1}{6}) = (\frac{1}{2} - \frac{1}{6})$ — the entire amount of

anticipated cover because $E(\min(X_1, X_2)) = E(X_1 + X_2) - E(\max(X_1, X_2)) = 1 - \frac{2}{3} = \frac{1}{3}$ (5)

$$E(\min(X_1, X_2)) = E(X_1 + X_2) - E(\max(X_1, X_2)) = 1 - (0 - 1)$$

Exhibit G

Bid-Ask Spreads (% of Price) - Fabozzi June 1997

	Normal	Distressed	Multiple
On-the-Run Treasuries	0.03	0.06	2.00
Off-the-Run Treasuries	0.06	0.09	1.50
Corporates (Intermediate)	0.12	0.50	4.17

Bid-Ask Spreads (% of Price) to Use for US Agency Del

Remaining Maturity	Normal *	Distressed **
0-6 mos	0.06	0.14
6 - 12 mos	0.13	0.33
1 - 2 yrs	0.21	0.52
2 - 5 yrs	0.34	0.85
5 -10 yrs	0.49	1.22
10 - 30 yrs	0.45	1.13

^{*} Average Bid-Ask Spread of Off-the-Run Treasuries from January 1992 to December 2002

^{**} Fabozzi Multiple (estimate between Treasuries and Corporates) x Normal Bid-Ask Spread

bt Haircuts

Exhibit H

Bid-Ask Spreads (% of Price) - Fabozzi June 1997

	Normal	Distressed	Multiple
Pass-through	0.06	0.25	4.17
ARM	0.13	0.38	2.92
Companion CMO	0.50	1.50	3.00
IO Strip	0.63	5.00	7.94

Bid-Ask Spreads (% of Price)- Bank of America July 2001

	Bid - Ask	Bid - Ask	Bid - Mid
	Normal	Distressed *	Distressed **
l	4.3000		
Inverse IO	4.2000	33.33	16.67
Structured IO	3.2900	26.11	13.06
WAC IO	3.2900	26.11	13.06
Structured PO	1.3000	10.32	5.16
Inverse Floaters	1.0600	8.41	4.21
Trust IO	0.4900	3.89	1.94
Trust PO	0.3400	2.70	1.35
Floaters	0.1250	0.99	0.50
Pass-through	0.0313	0.25	0.12

^{*} Fabozzi Multiple x B of A Bid-Ask Normal



^{**} Bid-Ask Distressed /2

Exhibit I

	L Py 27 01 130
	Page 1
1	
2	UNITED STATES BANKRUPTCY COURT
3	SOUTHERN DISTRICT OF NEW YORK
4	x
5	In Re:
6	Chapter 11
7	LEHMAN BROTHERS Case No. 08-13555(JMP)
8	HOLDINGS, INC., et al., (Jointly Administered)
9	
	Debtors.
10	
	x
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13	DEPOSITION OF JOSEPH SCHWABA
14	New York, New York
15	April 12, 2010
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23	Reported by:
24	KATHY S. KLEPFER, RMR, RPR, CRR, CLR
25	JOB NO. 29650A

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	Page 2		Page 3
1		1	
2	April 12, 2010	2	
3	9:28 A.M.	3	APPEARANCES:
	9.28 A.W.		APPEARANCES:
4	D '' CIOGEDII GCIIWADA	4	IONEG DAY II D
5	Deposition of JOSEPH SCHWABA,	5	JONES DAY, LLP
6	held at the law offices of Boies	6	Attorneys for Lehman Brothers, Inc.
7	Schiller & Flexner, LLP, 575 Lexington	7	222 East 41st Street
8	Avenue, New York, New York, before Kathy S.	8	New York, New York 10017-6702
9	Klepfer, a Registered Professional	9	BY: JAYANT W. TAMBE, ESQ.
10	Reporter, Registered Merit Reporter,	10	GEORGE E. SPENCER, ESQ.
11	Certified Realtime Reporter, Certified	11	
12	Livenote Reporter, and Notary Public	12	BOIES, SCHILLER & FLEXNER, LLP
13	of the State of New York.	13	Attorneys for Barclays
14		14	5301 Wisconsin Avenue, N.W.
15		15	Washington, D.C. 20015
16		16	BY: JONATHAN M. SHAW, ESQ.
17		17	,
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	Page 4	Ť	Page 5
	rage 1		
1		1	J. Schwaba
2	APPEARANCES: (Cont'd.)	2	JOSEPH SCHWABA, called as a
3		3	witness, having been duly sworn by a Notary
4	QUINN, EMANUEL, URQUHART & SULLIVAN, LLP	4	Public, was examined and testified as
5	Attorneys for the Creditors Committee	5	follows:
6	51 Madison Avenue	6	EXAMINATION BY
7	22nd Floor	7	MR. SHAW:
8	New York, New York 10010	8	Q. Please state your name for the record,
9	BY: ROBERT K. DAKIS, ESQ.	9	sir.
10		10	A. Joseph Schwaba.
11	HUGHES, HUBBARD & REED, LLP	11	Q. Mr. Schwaba, we introduced ourselves
12	Attorneys for the SIPA Trustee	12	off the record, but my name is Jonathan Shaw.
13	One Battery Park Plaza	13	I'm representing Barclays Capital, Inc.
14	New York, New York 10004-1482	14	Have you ever been deposed before,
15	BY: SAMUEL C. McCOUBREY, ESQ.	15	sir?
16		16	A. I think I was deposed before once.
17		17	Q. In what context?
18	ALSO PRESENT:	18	A. As a witness.
19	MARC VELLRATH, FSG	19	Q. An expert witness?
20	THE TEENTH, 100	20	A. No.
21		21	
22			•
		22	A. Yes.
23 24		23	Q. What kind of case was that?
24		24	A. It was a long time ago. Must have
25		25	been, oh, I'm guessing 20 years or so in regard

1 J. Schwaba 2 to a employee, somebody who used to report to 3 me. 4 Q. Okay. I'm going to ask you questions. 5 If any of my questions are unclear to you, 6 please let me know and I'll try and do a better 7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that. 12 A. Sure. 13 Q. Have you ever testified as an expert 14 before in any context? 15 A. I was in a couple of cases, must be 16 eight-plus, nine years ago, where I gave some 17 expert testimony, but it was an arbitration, as 18 I recollect, and a half months. 19 Q. What kind of arbitration was it? 19 Q. What kind of arbitration was it? 20 A. I don't even I think it had 21 something to do with a fixed income portfolio 22 valuation, but I don't even remember the 23 specifics and it didn't get very far. 24 Q. Did you actually testify in either of 25 the actual arbitration or in deposition? Page 8 1 J. Schwaba 2 for Chicago Partners; is that correct? Navigant 5 work? 6 A. I'm an independent contractor. 7 Q. Okay. And were you retained in this 8 matter, in this litigation at some point? 9 A. I was asked to provide to be an 10 expert with regard to this matter. 10 J. Schwaba and the fixed income point of the question. 11 J. Schwaba and the fixed income point of the question. 12 J. Schwaba and the fixed income point of the question. 14 J. Schwaba and the fixed income point of the question. 15 J. Schwaba and the fixed income point of the question. 26 J. Schwaba and the fixed income point of the question. 27 J. Schwaba and the fixed income point of the question. 28 J. Schwaba and the fixed income point of the question. 29 J. Schwaba and the fixed income point of the question. 20 J. Schwaba and the fixed income point of the question. 21 J. Schwaba and the fixed income point of the question. 22 J. Schwaba and the fixed income point of the question. 23 J. Schwaba and the fixed income point of the question. 24 J.
2 to a employee, somebody who used to report to 3 me. 4 Q. Okay. I'm going to ask you questions. 5 If any of my questions are unclear to you, 6 please let me know and I'll try and do a better 7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that. 12 A. Sure. 13 Q. Have you ever testified as an expert 14 before in any context? 15 A. I was in a couple of cases, must be 16 eight-plus, nine years ago, where I gave some 17 expert testimony, but it was an arbitration, as 18 I recollect. 19 Q. What kind of arbitration was it? 19 Q. What kind of arbitration was it? 10 Q. What kind of arbitration was it? 11 J. Schwaba 1 J. Schwaba 2 for Chicago Partners; is that correct? Navigant 3 Consulting? 4 Let me start again. For whom do you 4 work? 6 A. I'm an independent contractor. 7 Q. Okay. And were you retained in this 8 matter, in this litigation at some point? 9 A. I was asked to provide — to be an 10 expert with regard to this matter. 2 A. I was there and gave a minimal amount of testimony, as I recollect, but nothing more than that. 4 Chan that. Q. How many hours have you worked on the matters of ar? A. I don't have a specific number, but 1've put in easily a hundred-plus. Q. Over what period of time? A. Over the last couple of months. Let's see, where are we now? April? Q. Yes. A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? MR. TAMBE: Object to the form of the question, but I don't even remember the specifics and it didn't get very far. 2
3 me. 4 Q. Okay. I'm going to ask you questions. 5 If any of my questions are unclear to you, 6 please let me know and I'll try and do a better 7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and I'll may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 1 that. 2
4 Q. Okay. I'm going to ask you questions. 5 If any of my questions are unclear to you, 6 please let me know and I'll try and do a better 7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that. 12 A. Sure. 13 Q. Have you ever testified as an expert 14 before in any context? 15 A. I was in a couple of cases, must be 16 eight-plus, nine years ago, where I gave some 17 expert testimony, but it was an arbitration, as 18 I recollect. 19 Q. What kind of arbitration was it? 20 A. I don't even I think it had 21 something to do with a fixed income portfolio 22 valuation, but I don't even remember the 23 specifics and it didn't get very far. 24 Q. Did you actually testify in either of 25 the actual arbitration or in deposition? 26 A. I'm an independent contractor. 27 Q. Okay. And were you retained in this 28 matter, in this litigation at some point? 29 A. I was asked to provide to be an 20 Q. When did you manage trading 20 Q. When did you manage trading 21 operations? 22 Q. Yoev what period of time? 23 A. I would recollect probably two, two 24 and a half months. 25 Q. When were you engaged to begin work of this matter? 26 MR. TAMBE: Object to the form of the question. 27 MR. TAMBE: I just object to the form of the question, but you can answer if you understand his question. 28 A. Repeat the question, please. 29 Q. Sure. Do you know when you work 29 Q. You can answer. 30 A. I have been I have managed trading operations of which municipal securities were matter. 31 J. Schwaba 32 G. Over what period of time? 33 A. I would recollect probably two, two 34 A half months. 44 Q. When were you engaged to begin work of this matter? 45 MR. TAMBE: Object to the form of the question. 46 A. Repeat the question, please. 47 Q. Did you actually testify in either of the actual arbitration or in deposition? 48 A. I was an arbitration or in deposition? 49 A. I man independent contr
4 Q. Okay. I'm going to ask you questions. 5 If any of my questions are unclear to you, 6 please let me know and I'll try and do a better 7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that. 12 A. Sure. 13 Q. Have you ever testified as an expert 14 before in any context? 15 A. I was in a couple of cases, must be 16 eight-plus, nine years ago, where I gave some 17 expert testimony, but it was an arbitration, as 18 I recollect. 19 Q. What kind of arbitration was it? 20 A. I don't even I think it had 21 something to do with a fixed income portfolio 22 valuation, but I don't even remember the 23 specifics and it didn't get very far. 24 Q. Did you actually testify in either of 25 the actual arbitration or in deposition? 26 A. I'm an independent contractor. 27 Q. Okay. And were you retained in this 28 matter, in this litigation at some point? 29 A. I was asked to provide to be an 20 Q. When did you manage trading 20 Q. When did you manage trading 21 operations? 22 Q. Yes. 23 A. I would recollect probably two, two 24 A. I would recollect probably two, two 25 this matter? 26 MR. TAMBE: Object to the form of the 27 question. 28 Trecollect. 29 A. I don't even remember the 20 that in a time the source of the provide to be an 29 A. I was asked to provide to be an 29 A. I was asked to provide to be an 29 A. I was asked to provide to be an 29 C. When did you manage trading 29 A. I was asked to provide to be an 29 Q. When did you manage trading 29 A. I was asked to provide to be an 29 Q. When did you manage trading 29 A. I was asked to this matter.
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6 please let me know and I'll try and do a better job of phrasing them. If at some point today you want to take a break, just let me know, and I may ask that we finish up a question or two, but, you know, obviously I'm happy to let you do that. 1
7 job of phrasing them. If at some point today 8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that. 12 A. Sure. 13 Q. Have you ever testified as an expert 14 before in any context? 15 A. I was in a couple of cases, must be 16 eight-plus, nine years ago, where I gave some 17 expert testimony, but it was an arbitration, as 18 I recollect. 19 Q. What kind of arbitration was it? 10 A. I don't even I think it had 11 something to do with a fixed income portfolio 12 valuation, but I don't even remember the 13 specifics and it didn't get very far. 14 Q. Did you actually testify in either of 15 that. 1 J. Schwaba 1 J. Schwaba 2 for Chicago Partners; is that correct? Navigant 3 Consulting? 4 Let me start again. For whom do you 4 work? 6 A. I'm an independent contractor. 7 Q. Okay. And were you retained in this 8 matter, in this litigation at some point? 9 A. I was asked to provide to be an 10 expert with regard to this matter. 7 A. I don't have a specific number, but I've put in easily a hundred-plus. 7 Q. Over what period of time? 8 A. Over the last couple of months. Let's 8 e. Over the last couple of months. Let's 8 e. Over the last couple of months. Let's 8 e. Over the last couple of months. Let's 8 e. Over what period of time? 9 A. I was asked to provide to be an 10 over what period of time? 9 A. I was asked to provide to be an 10 over what period of time? 11 A. I was asked to provide to be an 12 Over what period of time? 14 Over the last couple of months. Let's 15 A. I was asked to provide to be an 15 Over what period of time? 16 Over what period of time? 18 Over what period of time? 19 A. I don't ever e-member the over we nemember of the question, but you can answ
8 you want to take a break, just let me know, and 9 I may ask that we finish up a question or two, 10 but, you know, obviously I'm happy to let you do 11 that.
9 I may ask that we finish up a question or two, but, you know, obviously I'm happy to let you do that. 1 that. 2 A. Sure. 1 Q. Have you ever testified as an expert 1 before in any context? 2 A. I was in a couple of cases, must be eight-plus, nine years ago, where I gave some expert testimony, but it was an arbitration, as I recollect. 1 P. Q. What kind of arbitration was it? 2 A. I don't even I think it had 20 A. I don't even remember the specifies and it didn't get very far. 2 V. Did you actually testify in either of the actual arbitration or in deposition? 3 Consulting? 4 Let me start again. For whom do you work? 4 A. I was asked to provide to be an own and a half months. 9 Q. When were you engaged to begin work of this matter? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? A. I was in a couple of cases, must be a half months. Q. When were you engaged to begin work of this matter? A. I was asked to provide - to be an opent? A. I was asked to provide - to be an opent? A. I was asked to provide - to be an operations? A. I was asked to provide - to be an operations? Q. When did you manage trading operations?
Lo but, you know, obviously I'm happy to let you do that. 1
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12 A. Sure. Q. Have you ever testified as an expert before in any context? A. I was in a couple of cases, must be eight-plus, nine years ago, where I gave some respert testimony, but it was an arbitration, as I recollect. Q. What kind of arbitration was it? A. I don't even I think it had positions or in deposition? Page 8 1 J. Schwaba for Chicago Partners; is that correct? Navigant Consulting? A. I'm an independent contractor. Q. Okay. And were you retained in this matter, in this litigation at some point? A. I would recollect probably two, two and a half months. Q. When were you engaged to begin work of this matter? MR. TAMBE: Object to the form of the question. You can answer. THE WITNESS: I'm sorry? Say again. MR. TAMBE: I just object to the form of the question, but you can answer if you understand his question. A. Repeat the question, please. Q. Sure. Do you know when you work Page 8 Page 1 J. Schwaba for Chicago Partners; is that correct? Navigant Consulting? A. I'm an independent contractor. Q. Okay. And were you retained in this matter, in this litigation at some point? A. I was asked to provide to be an expert with regard to this matter. 12 Q. When were you engaged to begin work of this matter? MR. TAMBE: Object to the form of the question. You can answer. A. Repeat the question, please. Q. Sure. Do you know when you work A. I have been I have managed trading operations of which municipal securities were apart. A. I have been I have managed trading operations? Q. When did you manage trading operations?
1.3 Q. Have you ever testified as an expert 1.4 before in any context? 1.5 A. I was in a couple of cases, must be 1.6 eight-plus, nine years ago, where I gave some 1.7 expert testimony, but it was an arbitration, as 1.8 I recollect. 1.9 Q. What kind of arbitration was it? 1.0 A. I don't even I think it had 1.0 Something to do with a fixed income portfolio 1.0 valuation, but I don't even remember the 1.0 specifics and it didn't get very far. 1.0 Did you actually testify in either of 1.1 Let me start again. For whom do you 1.0 Work? 1.0 Okay. And were you retained in this 1.1 main independent contractor. 2.1 matter, in this litigation at some point? 2.1 matter and a half months. 2.1 When were you engaged to begin work of this matter? 2.2 MR. TAMBE: Object to the form of the question. 3. A. I would recollect probably two, two and a half months. 3. A. I would recollect probably two, two and a half months. 4. I was half months. 4. I would recollect probably two, two and a half months. 4. I was half months. 5. Q. When were you engaged to begin work of this matter? 5. THE WITNESS: I'm sorry? Say again. 5. MR. TAMBE: Object to the form of the question. 5. A. Repeat the question, but you can answer. 6. A. I'm an independent contractor. 7. Q. Okay. And were you r
before in any context? A. I was in a couple of cases, must be eight-plus, nine years ago, where I gave some expert testimony, but it was an arbitration, as I recollect. Q. What kind of arbitration was it? A. I don't even I think it had specifics and it didn't get very far. Q. Did you actually testify in either of the actual arbitration or in deposition? Page 8 J. Schwaba J. Schwaba J. Schwaba Let me start again. For whom do you work? A. I'm an independent contractor. Q. Okay. And were you retained in this matter. A. I was asked to provide to be an expert with regard to this matter.
A. I was in a couple of cases, must be eight-plus, nine years ago, where I gave some expert testimony, but it was an arbitration, as I recollect. Description of the question. A. I don't even I think it had 20 20 21 22 22 22 23 24 24 25 25 25 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26
eight-plus, nine years ago, where I gave some expert testimony, but it was an arbitration, as I recollect. 9 Q. What kind of arbitration was it? 20 A. I don't even I think it had 21 something to do with a fixed income portfolio 22 valuation, but I don't even remember the 23 specifics and it didn't get very far. 24 Q. Did you actually testify in either of 25 the actual arbitration or in deposition? Page 8 1 J. Schwaba 2 for Chicago Partners; is that correct? Navigant 3 Consulting? 4 Let me start again. For whom do you 4 work? 6 A. I'm an independent contractor. 7 Q. Okay. And were you retained in this 8 matter, in this litigation at some point? 9 A. I was asked to provide to be an 10 expert with regard to this matter. 1 this matter? 1 MR. TAMBE: Object to the form of the question. 2 You can answer. 2 MR. TAMBE: I just object to the form of the question, but J don't even remember the 2 2 of the question, but you can answer if you understand his question. 2 A. Repeat the question, please. 2 D. Sure. Do you know when you work 2 Career been a trader of municipal securities' 3 MR. TAMBE: Object to the form of the question. 4 Let me start again. For whom do you 5 work? 6 A. I'm an independent contractor. 7 Q. Okay. And were you retained in this 8 matter, in this litigation at some point? 9 A. I was asked to provide to be an expert with regard to this matter. 10 when did you manage trading operations?
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10 expert with regard to this matter. 10 operations?
Q. And who asked you to be an expert in 1 A. One would be in when I worked for
12 regard to this matter? 12 Continental Bank.
A. Nick Weir. Q. And when was that?
Q. And who is Mr. Weir? 14 A. That was approximately 1986 through
15 A. He is a principal of Chicago 15 1990.
Partners/Navigant. 16 Q. Are there any other times that you
Q. And approximately when did Mr. Weir 17 managed traders in municipal securities?
ask you to serve as an expert consultant in this 8 A. I have managed portfolios at the
19 matter? 19 Federal Home Loan Bank of Pittsburgh, which
20 A. I don't recollect. 20 included some municipal securities as well.
<u> </u>
D1 O Was it in 2000 or 2010? D1 O And when was that?
Q. Was it in 2009 or 2010? Q. And when was that? Q. And when was that?
A. The best I can recall is we started 22 A. That was 19 or, excuse me, 2003
A. The best I can recall is we started having some discussions of a general nature in having some discussions of a general nature in having some discussions of a general nature in A. That was 19 or, excuse me, 2003 through 2009.
A. The best I can recall is we started 22 A. That was 19 or, excuse me, 2003

	Page 10		Page 11
1	J. Schwaba	1	J. Schwaba
2	Prudential Bache, 1982 through 1986, there were	2	capital ideally as well.
3	some municipal positions, or we dealt with	3	Q. And what do you mean by "income
4	strategy development with regard to some	4	simulation and forecasting"?
5	municipal positions.	5	A. Basically in income simulation
6	Q. In your work at the Federal Home Loan	6	forecasting you're looking at a variety of
7	Bank of Pittsburgh what were your specific	7	different scenarios, potentially. Interest
8	responsibilities?	8	rates go up. Interest rates go down. Yield
9	A. I was a Director of Corporate Risk	9	curve shifts. Goes flat. Yield curve goes
10		10	steep. How will that impact your income both on
11	•	11	a current basis and projecting out in a
12	- · · · · · · · · · · · · · · · · · · ·	12	particular period of time.
13		13	Q. And what do you mean when you say
14		14	"management of market risk"?
15	=	15	A. The securities that you have in your
16	_	16	position will either go up in value or down in
17		17	value based on market dynamics.
18		18	Q. How many portfolios were you
19		19	responsible for managing while you were at the
20		20	Home Loan Bank in Pittsburgh?
21		21	MR. TAMBE: Objection to the form of
22		22	the question.
23		23	Q. You can answer the question.
24	_	24	A. I was one of there were I'm not
25	•	25	sure I can understand the question. There was a
	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Dama 12		Dama 12
	Page 12		Page 13
1	J. Schwaba	1	J. Schwaba
2	J. Schwaba balance sheet and there are components of the	1 2	J. Schwaba Q. Did you actually have any
2	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and	2 3	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions
2 3 4	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and my group's responsibility was to measure that	2 3 4	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions in the portfolio that you were responsible for
2	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and my group's responsibility was to measure that risk, and the measurement of that risk entailed	2 3 4 5	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions in the portfolio that you were responsible for as a risk manager?
2 3 4	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and my group's responsibility was to measure that risk, and the measurement of that risk entailed both analysis of individual securities as well	2 3 4 5 6	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions in the portfolio that you were responsible for as a risk manager? A. At where?
2 3 4 5	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and my group's responsibility was to measure that risk, and the measurement of that risk entailed both analysis of individual securities as well as analysis of portfolios or subsets of those	2 3 4 5	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions in the portfolio that you were responsible for as a risk manager? A. At where? Q. At Pittsburgh.
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2 3 4 5 6 7 8	J. Schwaba balance sheet and there are components of the balance sheet, and part of my responsibility and my group's responsibility was to measure that risk, and the measurement of that risk entailed both analysis of individual securities as well as analysis of portfolios or subsets of those portfolios. Q. What percentage of the portfolios that	2 3 4 5 6 7 8 9	J. Schwaba Q. Did you actually have any responsibility for directing trading decisions in the portfolio that you were responsible for as a risk manager? A. At where? Q. At Pittsburgh. A. No direct trading decisions, no. However, I was on the Asset/Liability Committee,
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Page 14 Page 15 J. Schwaba 1 J. Schwaba 1 2 2 A. Part of our -- a big part of our Q. I'm not quite sure I understand what responsibility was to measure the risk in our 3 you mean. What do you mean you would check, who 3 4 asset/liability book, and municipals were a part 4 would provide you the marks that you were 5 of that, and so given the asset/liability system 5 checking? that we were using and employing, there would be 6 6 A. Typically, we would get them from the 7 a value that would be derived from that. So we 7 Capital Markets Department and from the -- they 8 would get them from the street. 8 had a hand in coming up with a valuation, 9 therefore, for those securities. 9 Q. Okay. And so you would then do what 10 to check marks you received from the Capital 10 Q. When you say you had a hand in coming 11 up with a valuation, what precisely do you mean? 11 **Markets Department?** 12 12 A. Calculating what the risk of that A. We would run -- we would, given what 13 13 particular element of the portfolio as well as they gave us, we would run our models, and 14 14 other elements of the portfolios were. sometimes there are outliers. There could be a 15 Q. Did you have any responsibility for 15 mistake, you know, the price, if a trade price 16 providing marks for those securities? 16 looked like something was askew or, you know, a 17 17 MR. TAMBE: Objection to the form of part of our responsibility was to make sure we 18 18 caught that and to make sure, you know, if the question. 19 19 something was input wrong or there was an A. We did not have, the best I can 20 20 recollect, we did not have direct responsibility individual security that was -- whose price 21 was -- looked different other than what, you 21 for input of marks. However, we would check 22 22 know, some type of reasonable range, given the those marks with other business units that were 23 23 providing. So we had input and oversight or situation, it could be different, it was part of 24 some -- some, not oversight, but some input 24 our responsibility, I thought, to check that. 25 25 Q. What's the source of the models that responsibility as a check. Page 16 Page 17 1 1 J. Schwaba J. Schwaba 2 2 were used to check these marks? A. That is correct. 3 3 A. We had a -- we had a highly reputable Q. And is an asset/liability model a 4 model that was used in the street, an 4 valuation model? 5 5 asset/liability model. MR. TAMBE: Object to the form of the 6 Q. Was that a proprietary model for your 6 question. 7 employer or was it something you had --7 MR. DAKIS: Join in that objection. 8 A. No, it was a -- it was a model that we 8 A. I believe that an asset/liability 9 9 model has a component of valuation in it. contracted with an entity for. 10 Q. And what entity was that? 10 Q. Is an asset/liability model, the type L1 MR. TAMBE: Can I just consult with 11 that you use, the type of model one would use to 12 12 value a municipal security? the witness? 13 13 MR. TAMBE: Object to the form of the (The witness confers with Mr. Tambe.) 14 MR. TAMBE: I think there's just a 14 MR. DAKIS: Same objection. 15 concern about the confidentiality of who the 15 vendor might have been. We'll --16 16 A. Could you repeat the question again, 17 17 MR. SHAW: It's not something I feel please? 18 18 strongly about so let's skip that one. Q. Sure. Is an asset/liability model of 19 the type that you used the type of model one 19 MR. TAMBE: Okay. He just doesn't 20 would use to value a municipal security? 20 know whether he's at liberty to divulge the 21 MR. TAMBE: I repeat the objection. 21 name of that. 22 22 MR. DAKIS: Same objection. MR. SHAW: I understand. I 23 23 A. If I understand you correctly, our -understand. there were -- there were values obtained for the 24 24 Q. And you described that model as an 25 municipal component of our asset and liabilities 25 asset/liability model; is that correct?

Page 18 Page 19 1 J. Schwaba 1 J. Schwaba 2 number of reasons, but --2 through use of the model. 3 3 Q. When you found what you described as Q. What other reasons would you have for 4 an outlier, what would you do to investigate the 4 talking to them about -- talking to them in the 5 difference between the values that had been 5 process of investigating why you found an 6 provided to you by your Capital Management Group 6 outlier? 7 and those that would be coming up on your model? 7 A. Well, as I said before, to see what, 8 A. Typically, what we would do is go back 8 you know, why that number is what it is. 9 and check, first of all, with our Capital 9 Q. And the reason you would expect them 10 10 Markets folks that gave us -- through whom we to know why that number is what it is is because 11 got the quote or the number, and then we would 11 they were, at least in part, is because they 12 12 either talk with them directly or in some cases were actively participating in the market; is 13 13 we might go back to the ultimate source of that that correct? 14 where we got our -- our street counterpart. 14 MR. TAMBE: Object to the form of the 15 Q. Would it be fair to say the reason you 15 question. 16 would talk to the Capital Markets folks is that, 16 A. I'm not going to presume to know what 17 17 their role is in great detail. However, other as people who were actively trading in that 18 18 things being equal, they should know, you know, market, they had a feel for the market and 19 19 perhaps information about why a particular trade why the value of their positions are where they 20 had occurred at a particular price? 20 are. I think, you know, my experience, that's 21 MR. TAMBE: Object to the form of the 21 part of the job. 22 22 Q. In September of 2008, what involvement question. MR. DAKIS: Same objection. did you have with the market for municipal 23 23 24 A. Well, if I understand you, I mean, it 24 securities? could be. I don't, you know, there could be a 25 25 A. Well, as you know and as we just have Page 20 Page 21 1 J. Schwaba J. Schwaba 1 2 2 been discussing, that was part of my don't recollect direct involvement in that. responsibility -- I was at the Federal Home Loan 3 3 Q. To the best of your knowledge, at any 4 Bank and my responsibilities that I have just -point in your career have you had any 4 5 5 we've just talked about. involvement with the valuation of adjustable 6 6 Q. What percentage of your time when you rate municipal securities? 7 were working for the Federal Home Loan Bank 7 A. To the extent that auction rate or 8 would you say you spent working on issues 8 adjustable, as you described it, were involved 9 relating to municipal securities? 9 in some of the portfolios that I was responsible 10 10 A. Very low percentage. for overseeing, there could have been some 11 Q. Under 5 percent? 11 involve -- indirect involvement. 12 12 A. Probably under 5 percent. Q. I think it's probably worth spending a 13 Q. Do you know if you spent any of your 13 minute just defining some terms. What is your 14 time working on issues relating to adjustable 14 understanding of what an adjustable rate 15 15 municipal securities? municipal security is? 16 16 A. I do not recollect working on A. My understanding is the rate on the adjustable rate securities. 17 17 security varies. We -- it can be an adjustable 18 Q. At any point in your career have you 18 rate based on an auction rate, it can be an done work on adjustable rate municipal 19 19 adjustable rate based on how it's priced in the 20 20 securities? marketplace, and that rate can vary through 21 21 A. I don't recollect that. certain defined conditions. 22 Q. Just so it's clear, at any point in 22 Q. So if I'm understanding you correctly, 23 your career have you done any work on auction 23 in your view, an auction rate security or 24 rate municipal securities? 24 auction rate securities -- strike that. 25 25 A. I may have on some occasions, but I If I'm understanding you correctly, in

Page 22 Page 23 1 1 J. Schwaba J. Schwaba 2 your view, auction rate municipal securities are 2 Q. In what way is that characterization, 3 3 in your view, inaccurate? a subset of the larger group of adjustable rate 4 securities, is that fair? 4 A. If you could repeat the question? 5 5 Q. Sure. Does a failed auction in an A. They could be construed that way. 6 Q. Well, is that how you construed them 6 auction rate municipal security indicate to you 7 when you used the term in your report? 7 a lack of market interest in that security? 8 A. I wouldn't characterize it that way. 8 A. It could be that the rate is not high 9 I think we were defining what each specific 9 enough. I mean, given market conditions at that 10 10 time, perhaps one could construe that. security was. 11 Q. In the context of auction rate 11 Q. When you say the rate is not high 12 enough, you mean the rate is not high enough to 12 securities, what is a failed auction? 13 13 interest people in purchasing the security? A. That is when there are not enough 14 14 That's right. bidders for the particular security that's being 15 auctioned off and so that they're, given that 15 Q. Would it be fair to say that auction 16 16 there are not enough bidders for the auction, rate securities that have failed at auction 17 the auction literally doesn't -- doesn't take 17 would trade below par? 18 place because there's not enough interest. 18 A. They could trade below par, but not 19 Q. So a failed auction indicates a lack 19 necessarily. 20 of market interest in a security? 20 Q. Would you expect such a security to 21 21 MR. TAMBE: Objection to the form of trade below par? 22 22 A. That's an interesting question because the question. MR. DAKIS: Same objection. 23 one of the things that was interesting to me was 23 24 A. I would not -- I am not sure I would 24 that there were a large number, a relatively 25 large number of securities that did not trade 25 characterize it that way. Page 24 Page 25 1 1 J. Schwaba J. Schwaba 2 2 below par even though there have been failed I recollect. 3 3 auctions. Q. What do you mean there was some 4 4 definite analysis going on? Does that mean you Q. Failed auctions in those particular were looking for such examples? 5 securities? 5 6 A. In our -- in our review of the market A. Yes, or like securities. 6 7 7 and the dynamics that were going on, I recollect Q. Or like securities? Well, which is 8 it? Have you identified particular transactions 8 that obviously there were failed or some failed 9 where there were trades at or above par in a 9 auctions. It was a phenomenon going on in that 10 10 time and place, and it was immediately -- it was security that had failed at auction? 11 MR. TAMBE: Object to the form of the 11 very interesting to look at the prices, the 12 12 market prices of those, and but I didn't -- I question. 13 MR. DAKIS: Objection. Same 13 can't recollect at this time specific 14 14 recommendations or specific points about those. Q. So as you sit here today you're unable 15 MR. McCOUBREY: Same objection. 15 A. I'm sorry, repeat the question again. 16 to identify for me any particular transaction of 16 17 Q. Sure. Have you identified particular 17 which you're aware where an auction rate 18 transactions where there were trades at or above 18 security that had failed at auction sold at or 19 19 par in an auction rate security that had failed above par? 20 20 at auction? MR. TAMBE: Objection to form. 21 21 MR. TAMBE: Same objection. Q. Is that accurate? 22 MR. DAKIS: Same objection. 22 MR. DAKIS: Same objection. 23 MR. McCOUBREY: Same. 23 MR. McCOUBREY: Same objection. A. I can't answer that with regard to a 24 A. There was some definite analysis going 24 25 25 specific security, to the best of my on, but I couldn't give you specifics of that as

		<u> </u>	Page 27
	Page 26		rage 27
1	J. Schwaba	1	J. Schwaba
2	recollection.	2	security that had failed at auction that traded
3	Q. Did you find examples of auction rate	3	above par; is that correct?
4	securities that failed at auction that traded	4	A. No, I would not say that either.
5	below par?	5	Q. Well, do you recall such an example?
6	A. To the best of my recollection, I can	6	A. Of what?
7	recall auction rate securities that were trading	7	Q. Of an auction rate security that had
8	at par or below par in the best of my	8	failed at auction that traded above par?
9	recollection. I couldn't answer one	9	A. I can't recall the specifics of that
10	specifically right now.	10	at this particular point in time.
11	Q. So we're clear, you said, "I can	11	Q. Well, sitting here today, you have no
12	recall auction rate securities were trading at	12	idea whether you can come up with an example of
13	par or below par." Did you mean auction rate	13	an auction rate security that failed at auction
14	securities that had failed at their auctions?	14	that traded above par, is that accurate?
15	A. Both ones that had failed and ones	15	MR. TAMBE: Objection to the form of
16	that had not failed.	16	the question.
17	Q. How far below par did the ones that	17	MR. DAKIS: Same objection.
18	had failed strike that. When you observed	18	MR. McCOUBREY: Same objection.
19	auction rate securities had failed at auction or	19	A. I don't recall I can't recall for
20	were trading below par, what was the range of	20	you the specifics at this particular point in
21	discount to par that you observed?	21	time.
22	A. I don't I don't recall the	22	Q. Do you have work papers that you could
23	specifics of that.	23	check to determine that?
24	Q. And just so I'm clear, you do not	24	A. There could be work papers that we
25	recall finding any examples of an auction rate	25	have available or that would could show that
	recan initially any champies of an auction rate		
			P 20
	Page 28		Page 29
1		1	Page 29 J. Schwaba
	Page 28		
1	Page 28 J. Schwaba	1	J. Schwaba
1 2	J. Schwaba possibly.	1 2	J. Schwaba A. There were a number of factors we
1 2 3	J. Schwaba possibly. Q. And what would those work papers be?	1 2 3	J. Schwaba A. There were a number of factors we looked at in terms of municipal auction rate
1 2 3 4	J. Schwaba possibly. Q. And what would those work papers be? A. I'd have to go back and look at some	1 2 3 4	J. Schwaba A. There were a number of factors we looked at in terms of municipal auction rate securities, but basically the demand, we were
1 2 3 4 5	J. Schwaba possibly. Q. And what would those work papers be? A. I'd have to go back and look at some of the specifics, but did we look at the	1 2 3 4 5	J. Schwaba A. There were a number of factors we looked at in terms of municipal auction rate securities, but basically the demand, we were very we were driven by market traded prices,
1 2 3 4 5 6	J. Schwaba possibly. Q. And what would those work papers be? A. I'd have to go back and look at some of the specifics, but did we look at the municipal market? Absolutely, in terms of the	1 2 3 4 5 6	J. Schwaba A. There were a number of factors we looked at in terms of municipal auction rate securities, but basically the demand, we were very we were driven by market traded prices, and that was our chief consideration.
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Page 30 Page 31 J. Schwaba 1 J. Schwaba 1 2 2 A. As I recollect, they do. A. I would agree with that. Q. Where would I find that in your work 3 3 Q. So can we agree on a definition of 4 4 "auction rate securities" as adjustable rate papers? 5 A. I couldn't tell you where you would 5 securities whose adjustable rate is determined 6 find it right as we speak, but I believe they --6 through an auction process? 7 I can't recall exactly, but I believe they were 7 A. I would accept that. Q. Okay. So then using those 8 as part of the information given out. 8 9 Q. Are you sure that these transactions 9 definitions, my question for you, sir, is of your 152 examples, how many were auction rate 0 were auction rate securities as opposed to 10 1 adjustable rate securities? 11 securities? 12 .2 MR. TAMBE: Objection to the form of A. My understanding is that they were 13 virtually all, or close to being all, were 13 the question. 14 4 MR. DAKIS: Same objection. auction rate securities. . 5 MR. McCOUBREY: Same objection. 15 Q. And what's the basis for that A. I think we would have to define our 16 .6 understanding? 17 17 terms. A. The source of information that we got 18 18 on those securities. O. Sure, let's define our terms. Would 19 it be fair to define an adjustable rate security 19 Q. What was the source of information you 20 as one where the interest rate is adjusted by 20 got on those securities? 21 21 some mechanism over time? A. The MSRB data. 22 Q. Is it your understanding the MSRB data 22 A. I would agree with that. 23 identifies whether a particular transaction 23 Q. And one of the potential mechanisms for adjusting interest rates is an auction 24 involved an auction rate security? 24 25 25 process; is that correct? A. I can't recall exactly. I believe it Page 32 Page 33 J. Schwaba 1 1 J. Schwaba 2 2 did, but ... you that they might not be appropriate comparables for the actual securities you were 3 3 Q. If you're wrong about whether the transactions that you used as comparables valuing, some of which were auction rate 4 4 included auction rate securities, what 5 5 securities? 6 implications would that have for your opinions 6 A. So are you saying that the securities 7 7 that we're valuing are auction rate or not in this case? 8 MR. DAKIS: Objection to the form of 8 auction rate? Are they adjustable or -- could 9 9 you please -the question. 10 MR. TAMBE: Same objection. 10 Q. Let me back up. You valued a group of 11 MR. McCOUBREY: Same objection. 11 26 CUSIPS; is that correct? 12 12 A. That's correct. A. I'm not sure I understand that 13 question and how to answer it. 13 Q. In fact, it's really 24 distinct 14 Q. Well, would you have any concern if 14 CUSIPS because two of them are valued twice, 15 the transactions you picked are not 15 right? 16 comparable -- strike that. Would you have any 16 concern that the transactions you were using as 17 17 Q. Do you know whether any of those were comparables for valuing auction rate securities 18 18 auction rate securities? in the group of securities that you looked at 19 19 A. Yes. 20 were not appropriate comparables if the 20 Q. How many of them were auction rate 21 comparables you used were not auction rate 21 securities? 22 securities? 22 A. My understanding is that there were 20 auction rate, or we refer to them as adjustable, 23 23 A. Say that again, please. Q. If the comparables that you used were but 20 were of that type, except there was one 24 24 25 25 that was an OID adjustable or auction rate as not auction rate securities, would it concern

Page 34 Page 35 J. Schwaba 1 1 J. Schwaba 2 2 well and the dynamics of pricing for that were The source of our information. 3 kind of a combination. But that's -- but 3 Q. So that would be in your work papers? 4 basically what I'm saying is that my 4 A. I believe, I believe it would be 5 understanding is that the 19 were what you would 5 located there. 6 term auction rate securities. 6 Q. And if I understand you correctly, if 7 7 Q. Well, just so I'm clear, your I look at your work papers and I see that 8 testimony is that 19 of the securities you 8 something is labeled is an adjustable rate municipal security, I should understand that to 9 looked --9 10 10 mean that it's an auction rate? A. Twenty were labeled as adjustable rate 11 securities, okay? 11 MR. TAMBE: Objection to the form of 12 12 Q. Okay. the question. 13 13 Q. Is that correct? A. And that would be how many. 14 Q. And your testimony is that of those 20 14 MR. DAKIS: Same objection. 15 that were labeled adjustable rate securities, 19 15 A. You can draw your own conclusions. of them were auction rate securities or 20 were 16 16 You know, I'm not sure --17 17 auction rate securities? Q. I don't want to draw my own 18 18 conclusions. I want to know what your A. My understanding is actually that 20 19 were labeled as auction rate securities. The 19 understanding is. You're the one who prepared 20 dynamics of how one, in my opinion, was priced 20 the work papers or had them prepared for you, 21 would -- would make it a little bit unique in 21 right? 22 that respect, but definitely 19, and then 20 22 A. That's correct. were labeled. 23 23 Q. So when in your work papers a security 24 Q. When you say "labeled," where would 24 is labeled adjustable rate, does that mean it's 25 25 an auction rate security or you're not sure they be labeled? Page 37 Page 36 1 1 J. Schwaba J. Schwaba 2 2 whether it means it's an auction rate security? Q. And why is that? 3 MR. TAMBE: Objection to the form. 3 A. It would strike me as there would be Which pool are you talking about? The 4 4 less demand for the bond. ones that he valued or the --5 5 Q. Would you expect there to be a 6 MR. SHAW: The ones he valued. correlation between the length of time since the 6 7 A. My understanding is it is most -- the 7 security was subject to a successful auction and 8 adjustable rate securities and auction rate 8 the likelihood that such a security would trade securities were used somewhat interchangeably 9 9 below par? 10 10 there. MR. TAMBE: Object to the form of the Q. Well, if I put the list of 24 CUSIPS 11 11 question. 12 12 in front of you, sir, would you be able to tell MR. DAKIS: Same objection. me which ones are auction rate and which ones MR. McCOUBREY: Same objection. 13 13 14 14 A. Say that again, please. are adjustable rate? 15 Q. Would you expect there to be a 15 A. I would be able to tell you which ones 16 I believe to be auction rate, yes. 16 correlation between the length of time since a 17 17 Q. We'll have a chance to do that a security was subject to a successful auction and 18 18 little later. the likelihood that such a security would trade 19 19 Would you expect a security with a below par? 20 history of repeated failed auctions to be more 20 A. Not necessarily. 21 likely to trade below par than one that had only 21 Q. Why not? 22 one failed auction? 22 A. Because of the, in our analysis and 23 23 A. If you're asking for my professional what we saw, in terms of valuing these opinion, I would say other things being equal, I securities, and especially through the use of 24 24 25 would agree with that. 25 the comparables and proxies, as we termed them,

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	Page 38		Page 39
1	J. Schwaba	1	J. Schwaba
2	there were a large, fairly large number of	2	if any particular comparable had been subject to
3	securities that were trading at or around par.	3	a failed auction?
4	Q. How many of those comparables were	4	MR. TAMBE: Objection to the form.
5	auction rate securities that had failed at their	5	MR. DAKIS: Objection to the form.
6	auctions?	6	Q. Is that correct?
7	A. I don't have that specific answer.	7	A. I can't say that, no.
8	Q. Is that something you looked at?	8	Q. So, just so I'm clear, you cannot say
9	A. We looked at what had failed and what	9	that you made any efforts to determine if any
10	hadn't. We were aware of the failed auctions.	10	particular comparable had been subject to a
11	Q. When you say you were aware of the	11	failed auction; is that correct?
12	failed auctions, what do you mean?	12	MR. TAMBE: Objection to the form of
13	A. When we were doing our analysis of a	13	the question.
14	particular security, and I believe even in many	14	MR. DAKIS: Same objection.
15		15	-
	of the comparables we were aware of auctions that were failed and those that didn't.	1	A. No, I can't say that.
16		16	Q. Would you expect there to be any
17	Q. So if I understand you correctly, when	17	correlation between the length of time since a
18	you were looking at possible comparables, you	18	security was subject to a successful auction and
19	tried to determine whether they had been the	19	the amount below par at which that security
20	subject of a failed auction?	20	would trade?
21	A. I can't give you specifics on that. I	21	A. Say that again, please.
22	do know we were primarily concerned with the	22	Q. Would you expect there to be a
23	price, the traded price in the marketplace.	23	correlation between the length of time since a
24	Q. So as you sit here today, you cannot	24	security was subject to a successful auction and
25	tell me whether you made any effort to determine	25	the amount below par at which that security
	Page 40		Page 41
1			Page 41
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2	J. Schwaba would trade?	1 2	J. Schwaba Q. Would it be fair to say that auction
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1	J. Schwaba	1	J. Schwaba
2	MR. TAMBE: Objection to the form of	2	those conditions were, if they applied or not,"
3	the question.	3	and what I'm asking is what are the conditions
4	MR. DAKIS: Objection.	4	you're talking about?
5	MR. McCOUBREY: Objection.	5	A. As they relate to the manner in which
6	A. Say that again, please.	6	those securities would be auctioned and as it
7	Q. Yes. For any given example of a	7	relates as it potentially could relate to
8	failed auction rate security, what information	8	some of the conditions affecting liquidity.
9	would you look at to determine whether it was	9	Q. And did you draw any conclusions based
10	subject to restricted liquidity?	10	on that analysis of the factors that would
11	A. Well, in our analysis of securities,	11	influence the extent or likelihood which the
12	we would look both at the information contained	12	liquidity of such a security would be
13	in Bloomberg and we would look at information	13	restricted?
14	contained in the official statements to	14	A. To the best of my recollection, it was
15	determine what some of those conditions were, if	15	so individual. I mean, I'd like to be able to
16	they applied or not.	16	say that this, okay, they're all securities like
17	Q. What do you mean by "some of those	17	this, but that they were had different
18	conditions were"?	18	characteristics, different different aspects
19	A. I'm sorry, repeat that again in terms	19	about it.
20	of your original question because	20	Q. Would a period of time following a
21	Q. You said, "Well, in our analysis of	21	failed auction during which a security did not
22	securities, we would look both at the	22	trade at all be an indicator that it was that
23		23	
24	look at the information contained in the	24	that security was subject to restricted liquidity?
25	official statements to determine what some of	25	= -
2.5	official statements to determine what some of	F-3	MR. DAKIS: Objection to form.
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Page 46 Page 47 1 J. Schwaba 1 J. Schwaba 2 2 of which 1,664 were labeled as auction rate So there was a lot of nervousness in 3 3 the market, I do recollect that very well, and securities. there was at the same time, as I recollect, a 4 4 Q. 1,66 --5 fair amount of trading going on so that 5 A. Based on the -- based on the liquidity was a concern, but there were in some 6 6 information that we had. 7 markets there was also a fair amount of activity 7 Q. They were labeled as auction rate 8 8 going on in terms of trading activity. securities or adjustable rate securities? 9 Q. Just so I'm clear, when you say there 9 A. I don't -- I thought they were, but I could be -- I don't -- I believe they were -- we 10 was a fair amount of trading activity going on, 10 are you talking specifically about auction rate 11 11 would label them adjustable rate securities, of 12 12 which we believed they were mostly auction rate securities? 13 13 A. I'm talking about what we're talking securities. 14 about being an auction rate or adjustable rate 14 Q. And what's the basis for your belief 15 securities, that's right. 15 they were mostly auction rate securities? 16 16 Q. Well, I'm asking specifically about A. Based on the information that we 17 auction rate securities now. What was your 17 derived from our sources. 18 understanding of the conditions in the market 18 Q. And what sources would those be? 19 19 for auction rate securities in September of A. The MSRB database, Access, Bloomberg 20 20 2008? rating systems. 21 21 A. There was a fair amount of activity Q. And were any records created of your 22 going on in terms of trading, as I recollect. I 22 determinations as to whether these were auction 23 can tell you, based on our information, that on 23 rate or adjustable rate or some other type of 24 September 19, based on the information we have, 24 securities? 25 there were 12,416 municipal securities traded, 25 MR. TAMBE: Objection to the form of Page 48 Page 49 1 1 J. Schwaba J. Schwaba 2 2 the question. statement concerning the auction rate securities 3 MR. DAKIS: Same objection. 3 market at that time? MR. McCOUBREY: Same objection. 4 4 MR. TAMBE: Objection to the form of 5 A. We documented the evidence or the 5 the question. 6 information that we got from those sources. 6 MR. DAKIS: Same objection. 7 O. And where would I find the 7 MR. McCOUBREY: Same objection. 8 documentation of that information, sir? 8 A. I believe that it could have applied 9 A. Well, what I'm saying is that we were 9 towards -- I mean that term is used. I believe 10 verifying -- well, we got the information from 10 it could have been applied to certain 11 those sources, as I said, and I don't recall 11 securities. 12 12 specific documentation with regard to that, O. Which securities could it have been 13 however, the analysis that we did accounted for 13 applied to? 14 our large -- the 152 that we used as proxies. 14 A. I couldn't give you specifics. 15 15 Q. Could it have applied to the 24 So we were analyzing those 1,664, if you will, 16 or out of that universe, and comparing different 16 securities that you valued in your report? 17 17 MR. TAMBE: Objection to the form of aspects of the bonds, of those municipal bonds to our 20, 19 to 20 ARS, if you will, to 18 18 the question. 19 19 determine the commonalities between those and, A. I couldn't give you a specific answer 20 20 on a qualitative basis, the correlative factors. on that. 21 Q. Have you ever heard anyone describe 21 Q. Well, one thing we know is that you 22 the auction rate securities market in September 22 did not find prices for any of those 24 of 2008 as essentially frozen? 23 23 securities; is that correct? A. I have heard that. MR. TAMBE: Objection to the form of 24 24 25 25 Q. Do you believe that's an accurate the question.

Page 50 Page 51 1 J. Schwaba 1 J. Schwaba 2 2 lower than the price that you arrived at through A. Actually, that's not quite correct. There were two securities, one of which I 3 3 your use of proxies? 4 believe was an auction rate security, the other 4 A. I don't recall. I think -- I don't 5 was a zero coupon that did trade on September 5 recall exactly. As I recollect, the actual 6 6 price was at par, if I remember correctly, and I 19. 7 Q. What auction rate security traded on 7 may not be remembering correctly, but if I did, 8 September 19, sir? 8 I believe it was at par, and I can't recall 9 A. I don't recall the specific one. 9 specifically what the proxy price was. Q. Okay. I'll try and remember to ask 10 Q. You stated at one point a few minutes 10 11 you about that one when we pull out the list. 11 ago that you noticed that there was a flight to 12 12 A. The source for that was quality. Do you remember that? 13 13 A. General market conditions in September investinginbonds.com. 14 14 Q. And when you valued that one, did you of 2008, that would be correct. 15 use that market price or did you use a proxy? 15 Q. Did that flight to quality involve 16 16 A. We used a proxy. investors flying to auction rate securities? Q. Why did you use a proxy rather than 17 A. I could not draw that specific 17 18 the market price? 18 conclusion, but my recollection is that some 19 19 security -- some investors were moving to A. Because we wanted to be consistent in 20 our application. We didn't want it to be 20 municipals, which theoretically could have 21 21 construed as cherrypicking or we wanted a -- I included some auction rate. 22 wanted to use a methodology that I felt was to 22 (Recess; Time Noted: 10:36 A.M.) be consistently applied. 23 23 (Time Noted: 10:47 A.M.) 24 Q. And was the actual price of the 24 BY MR. SHAW: 25 25 transaction of that security on 9/19 higher or Q. Mr. Schwaba, I believe you said Page 52 Page 53 1 J. Schwaba 1 J. Schwaba you mean adjustable rate or do you mean auction 2 2 earlier that you had observed a, quote, fair amount of trading in the adjustable rate 3 3 rate? municipal securities market in September of 4 4 We use adjustable rate, incorporating A. 5 5 2008, is that -auction rate as well. 6 A. I think I --6 Q. And the evidence --7 MR. TAMBE: Objection to the form of 7 A. I do that. Excuse me. 8 the question. 8 Q. And the evidence that you have -- I'm 9 You can answer. 9 sorry. Strike that. 10 .0 MR. DAKIS: Same objection. And the basis for your statement that 11 MR. McCOUBREY: Same objection. 11 there was a fair amount of trading in the ARS 12 12 market is that on the 19th you observed trading A. I think I, as I recollect, and I'm --13 I think there was a fair amount of trading going 13 in a little less than 1700 ARS securities; is on in the municipal market. 14 14 15 15 Q. So are you saying then you did not A. We did observe trading in the ARS observe a fair amount of trading in the 16 market and we -- what I also heard anecdotally 16 17 17 adjustable rate market? was that there was a fair amount of trading 18 18 MR. TAMBE: Objection to form. going on. In other words, the volume on that MR. DAKIS: Objection to form. 19 particular day was not necessarily all that 19 20 different from, in terms of total volume, in the 20 MR. McCOUBREY: Form objection. 21 A. I can't say that definitively. I weeks and months previous and the weeks and 21 22 believe that there was -- my interpretation was 22 months after, but I don't have -- I couldn't that there was a fair amount of trading going on 23 23 give you specifics on that at this particular 24 24 in the ARS market as well. point in time. Q. And when you use the term "ARS," do 25 Q. So you wouldn't be able to tell me, 25

	Page 54		Page 55
1	J. Schwaba	1	J. Schwaba
2	for example, how the volume on September 19,	2	A. My the staff that I've been working
3	2008 compared to the average ARS trading volume	3	with.
4	in, say, December of 2007?	4	Q. And who are the staff you've been
5	A. I could not give you that, no.	5	working with?
6	Q. Or how it compares to trading today?	6	A. I've used some resources, as I've
7	A. I could not give you that at this	7	indicated in my report, of Chicago Partners.
8	time.	8	Q. And that was in place before you were
9	Q. In fact, you have no idea how	9	retained to work on this matter; is that right?
10	whether looking at it in historical terms, the	10	MR. TAMBE: Objection to the form of
11	volume of trading on September 19 was high or	11	the question.
12	low?	12	MR. DAKIS: Same objection.
13	MR. TAMBE: Objection to the form of	13	Q. They were already working on this
14	the question.	14	matter before you were retained; is that
15	MR. McCOUBREY: Objection to the form.	15	correct?
16	Q. Is that right?	16	A. I couldn't give you that information.
17	MR. DAKIS: Same objection.	17	I don't have that information.
18	A. I could not give you that information	18	Q. Had you previously worked with Chicago
19	at this time. I have had discussions about	19	Partners?
20	that, but I do not have I could not give you	20	A. I've worked with Mr. Nick Weir on a
21	that at this time.	21	discussion basis prior to this.
22	Q. With whom have you had discussions	22	Q. Have you worked with any of the
23	about that?	23	individuals who have been providing you support
24	A. My counterparts.	24	services at Chicago Partners before this
25	Q. Your counterparts, meaning who?	25	engagement?
	Page 56		Page 57
1	J. Schwaba	1	J. Schwaba
2	J. Schwaba A. No.	2	J. Schwaba 2008 when auction rate security auctions started
2	J. Schwaba A. No. Q. Were you given the option of retaining	2 3	J. Schwaba 2008 when auction rate security auctions started to fail fairly regularly?
2 3 4	J. Schwaba A. No. Q. Were you given the option of retaining other support personnel?	2 3 4	J. Schwaba 2008 when auction rate security auctions started to fail fairly regularly? A. Based on the information that I saw,
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2 3 4 5 6 7	J. Schwaba A. No. Q. Were you given the option of retaining other support personnel? A. Say that question again, please. Q. Yes. When you were retained to work on this, were you given an option to use people	2 3 4 5 6 7	J. Schwaba 2008 when auction rate security auctions started to fail fairly regularly? A. Based on the information that I saw, it appeared that failed auctions did start to increase, you know, in the time period you were talking about, in 2008, maybe even a little
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	Page 58		Page 59
	rage so		
1	J. Schwaba	1	J. Schwaba
2	more than 20 percent.	2	A. I don't have specific information on
3	Q. More than 40 percent?	3	that.
4	A. It could be.	4	Q. Do you know whether any financial
5	Q. More than 60 percent?	5	institutions responding to either relationship
6	A. I don't know.	6	pressures or legal or regulatory pressures were
7	Q. As much as 80 percent?	7	buying back auction rate securities from
8	A. I don't I don't have a specific	8	investors at or near par?
9	number on that.	9	A. I have public information to that
10	Q. Are you aware that by September 2008	10	effect. I had heard that.
11	some investors in auction rate securities	11	Q. And that was true as of September
12	contended that they had been misled by the	12	2008?
13	financial institutions from whom they had	13	A. I don't recall the specific time, but
14	purchased such securities?	14	it could have been on or around then.
15	A. I do not have that specific	15	Q. Do you know if such transactions would
16	information.	16	have been reported on MSRB?
17	Q. Do you know whether any financial	17	A. I do not. I do not know that.
18	institutions faced lawsuits relating to their	18	Q. Would you agree that a transaction
19	sales of auction rate securities to investors?	19	where a financial institution is repurchasing
20	A. I don't have any specific information	20	auction rate securities from investors for a
21	about that.	21	relationship or in response to legal or
22	Q. Do you know whether there were any	22	regulatory pressures are not arm's length
23	government or regulatory investigations ongoing	23	transactions?
24	into the practices of financial institutions	24	
2 4 25		25 25	MR. TAMBE: Objection to the form of
25	that sold auction rate securities to investors?	2.5	the question.
	Page 60		Page 61
1	J. Schwaba	1	J. Schwaba
2	MR. DAKIS: Objection to form.	2	active markets with frequent purchases and
3	MR. McCOUBREY: Objection to form.	3	sales. So
4	A. I believe that's an interpretation	4	A. You'd like me to set that aside?
5	which I can't speak with authority about.	5	Q. For purposes of the next couple of
6	Q. Would you be at all concerned with	6	questions. So we're not talking about
7	using such a transaction as a comparable for	7	Treasuries and we're not talking about equities
8	purposes of valuing the securities that you in	8	issued by large Fortune 500 companies, okay? I
9	fact valued in this case?	9	want to focus on less liquid securities. Do you
10	MR. TAMBE: Objection to the form of	10	understand that?
11	the question.	11	
	the question.		A. (Witness nods.) Q. You need to answer orally.
12	•	1つ	
12	MR. DAKIS: Same objection.	12	
13	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection.	13	A. Yes, I do understand.
13 14	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but	13 14	A. Yes, I do understand.Q. Would you agree that for such less
13 14 15	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions,	13 14 15	A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the
13 14 15 16	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions, any conclusion that I necessarily would have.	13 14 15 16	A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the value as of some date and time?
13 14 15 16 17	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions, any conclusion that I necessarily would have. Q. But you're also not sure that it	13 14 15 16 17	A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the value as of some date and time? MR. TAMBE: Object to the form of the
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13 14 15 16 17 18	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions, any conclusion that I necessarily would have. Q. But you're also not sure that it wouldn't; is that correct? A. I'm not going to say that it would or	13 14 15 16 17 18 19	A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the value as of some date and time? MR. TAMBE: Object to the form of the question. A. It could represent that.
13 14 15 16 17 18 19	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions, any conclusion that I necessarily would have. Q. But you're also not sure that it wouldn't; is that correct? A. I'm not going to say that it would or it wouldn't.	13 14 15 16 17 18 19	A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the value as of some date and time? MR. TAMBE: Object to the form of the question. A. It could represent that. Q. If you don't have an actual
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13 14 15 16 17 18 19 20 21 22	MR. DAKIS: Same objection. MR. McCOUBREY: Same objection. A. I potentially could be concerned, but I'm not sure it would change the conclusions, any conclusion that I necessarily would have. Q. But you're also not sure that it wouldn't; is that correct? A. I'm not going to say that it would or it wouldn't. Q. I'd like you to set aside for the moment securities that traded deep in active markets with frequent purchases and sales, okay?	13 14 15 16 17 18 19 20 21 22 23	 A. Yes, I do understand. Q. Would you agree that for such less liquid securities a mark is an estimate of the value as of some date and time? MR. TAMBE: Object to the form of the question. A. It could represent that. Q. If you don't have an actual transaction price for that security, would the mark necessarily be an estimate of its value? A. If you don't have a if you don't
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Page 62 Page 63 J. Schwaba 1 1 J. Schwaba 2 O. Under what circumstances would it not 2 A. It could be construed as an estimate 3 3 be an estimate? of value of that security. 4 MR. TAMBE: Objection to the form of 4 Q. Isn't it necessarily an estimate of 5 the value of that security? 5 the question. 6 MR. DAKIS: Same objection. 6 A. Excuse me? 7 A. It depends. Theoretically, it could 7 Q. Isn't it necessarily an estimate of the value of that security as of a given date 8 depend on what the person or the entity or the 8 9 institution putting out the mark was going to 9 and time? use it -- what it wanted to indicate. 10 10 A. It could be construed as that. 11 O. What is a mark? 11 Q. Was there any way to construe that 12 12 A. Excuse me. it's not that? 13 13 Q. What is your understanding of the term A. It depends on what you want to use 14 14 "mark"? that mark for. 15 15 A. I guess I'd have to ask you that. Q. How does it depend on what you want to What do you mean by "mark" in this instance? 16 16 use that mark for? Q. Didn't you define a "mark" in your 17 17 A. In my mind, a mark is an estimate of 18 18 report? the value. It's an estimate. 19 19 Q. Okay. Have you ever taken a A. We've -- we defined actual traded statistics course or an econometrics course? 20 prices. A transaction -- there was originally a 20 bid and there was originally an offer and 21 21 A. Yes. 22 22 Q. Would it be fair to say that, speaking there's a transaction. Q. And what is a mark in a circumstance statistically, an estimate is virtually always 23 23 24 where you do not have an actual transaction in 24 subject to some degree of uncertainty? A. I would agree with that. 25 that particular security? 25 Page 64 Page 65 1 J. Schwaba 1 J. Schwaba Q. And so there's necessarily some margin 2 2 Q. Why not? 3 for error; is that correct? 3 A. My choice was to use traded prices. It's not -- traded prices indicates to me an 4 A. From a statistical perspective, I 4 would agree with that. 5 actual trade took place, and that's where the 5 Q. Have you done anything to quantify the 6 value of that particular security was. 6 7 degree of uncertainty surrounding any of the 7 Q. But just so we're clear, with the marks that you estimated in your work on this exception of perhaps 2 of the 24 securities you 8 8 9 9 looked at, you did not observe any traded price case? 10 10 for that security; is that correct? MR. TAMBE: Objection to the form of 11 the question. 11 A. I observed traded prices for proxies. 12 A. Say that again, please. Q. And your selection of proxies required 12 you to use judgment, is that fair? Q. Have you done anything to quantify the 13 13 degree of uncertainty surrounding any of the 14 14 A. That would be accurate. marks that you estimated in your work on this .5 Q. And would you agree that a reasonable 15 16 16 valuation expert could disagree with some of case? 17 17 your choices of proxies? MR. TAMBE: Same objection. A. I would accept that that could happen. 18 18 A. No, we have not. 19 Q. We've talked previously about how at 19 Q. Are you familiar with the concept of 20 confidence interval? 20 least some people would describe in the auction 21 21 rate securities market as essentially frozen A. I am familiar with that. 22 Q. Are you able to quantify for me a 95 22 around September of 2008; is that correct? 23 percent confidence interval around your 23 A. Yes, we did. Q. It's not clear to me, do you agree 24 estimates? 24 25 25 that the market was essentially frozen at that A. I cannot do that or haven't done that.

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1	J. Schwaba	1	J. Schwaba
2	time?	2	there it would depend also from a larger
3	A. Given the use of the term "frozen" and	3	perspective on the number of trades going on in
4	what it means in the auction rate securities, I	4	the marketplace as well.
5	could accept that there was some degree of	5	Q. In other words, you would determine
6	that that condition could be used to describe	6	whether the quantity and quality of information
7	the market.	7	available was thin by reference to the number of
8	Q. Well, just so we're clear, then, what	8	trades going on in the marketplace?
9	do you understand the term "frozen" to mean in	9	A. Well, there are different aspects of
10	that context?	10	the marketplace and should be weighed and
11	A. That basically there was little or no	11	evaluated.
12	movement in terms of the auction rate securities	12	Q. Are there any aspects in your
13	markets in terms of basically a number or a	13	opinion strike that. In your opinion, were
14	large number of failed auctions and relatively	14	there any aspects of the auction rate securities
15	little activity from an investment in the	15	marketplace where the quality and quantity of
16	auction rate market.	16	available information about price was not thin
17	Q. And would it be fair to say that, as a	17	in September of 2008?
18	result of that, the quantity and quality of	18	MR. TAMBE: Objection to the form of
19	available information about prices for auction	19	the question.
20	rate securities was thin?	20	MR. DAKIS: Same objection.
21	MR. TAMBE: Object to the form of the	21	MR. McCOUBREY: Same objection.
22	question.	22	A. I'm not sure I understand that
23	MR. DAKIS: Same objection.	23	question.
24	MR. McCOUBREY: Same objection.	24	Q. In your opinion, were there any
25	A. That could be an interpretation, but	25	aspects of the auction rate securities
	Page 68		Page 69
1	J. Schwaba	1	J. Schwaba
2	marketplace where there was a deep and active	2	the preceding three years?
3	market during September of 2008?	3	MR. TAMBE: Objection to the form of
4	A. Say that one more time, please.	4	the question. Objection. Asked and
5	Q. In your opinion, were there any	5	answered.
6	aspects of the auction rate securities	6	Q. You can answer.
7	marketplace where there was a deep and active	7	A. I could not I do not have that
8	market during September of 2008?	8	information given the way you phrased that
9	MR. TAMBE: Objection to the form of	9	question.
10	the question.	10	Q. Do you know how the volume traded on
11	MR. McCOUBREY: Same objection.	11	September 19, 2008 compared to, say, the average
			1 1 1 20050
12	A. One could interpret the number of	12	daily volume in 2007?
12 13	A. One could interpret the number of trades going on during that period of time as	13	A. I do not.
12 13 14	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and	13 14	A. I do not.Q. Would it surprise you if it was
12 13 14 15	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have	13 14 15	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and
12 13 14 15 16	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected.	13 14 15 16	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters?
12 13 14 15 16 17	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected. Q. And when you say that, you're	13 14 15 16 17	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters? MR. TAMBE: Objection to the form of
12 13 14 15 16 17	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected. Q. And when you say that, you're referring specifically to the 1,664 trades and	13 14 15 16 17 18	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters? MR. TAMBE: Objection to the form of the question.
12 13 14 15 16 17 18	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected. Q. And when you say that, you're referring specifically to the 1,664 trades and adjustable rate securities that you identified	13 14 15 16 17 18	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters? MR. TAMBE: Objection to the form of the question. A. Of what? The volume are you saying
12 13 14 15 16 17 18 19	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected. Q. And when you say that, you're referring specifically to the 1,664 trades and adjustable rate securities that you identified in your report?	13 14 15 16 17 18 19 20	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters? MR. TAMBE: Objection to the form of the question. A. Of what? The volume are you saying the volume in 2007 would be less than 2008?
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12 13 14 15 16 17 18 19 20 21	A. One could interpret the number of trades going on during that period of time as indicating more a fair amount of value and depth of the market than one would have originally suspected. Q. And when you say that, you're referring specifically to the 1,664 trades and adjustable rate securities that you identified in your report? A. And the 12,460 municipal securities traded on September 19.	13 14 15 16 17 18 19 20 21	A. I do not. Q. Would it surprise you if it was reduced by between two-thirds and three-quarters? MR. TAMBE: Objection to the form of the question. A. Of what? The volume are you saying the volume in 2007 would be less than 2008? Q. No, I'm saying that the volume in September of 2008 would be between one-quarter

	Page 70		Page 71
1	J. Schwaba	1	J. Schwaba
2	or not.	2	adjustable rate securities that you observed
3	Q. Would that have any implications for	3	being traded on September 19; is that correct?
4	your analysis in this case?	4	A. That would be right.
5	MR. DAKIS: Objection to the form.	5	Q. Okay. And you're not referring to
6	A. I couldn't necessarily say that. I	6	anything else when you say that, right?
7	think we would have to look at, you know, what	7	MR. TAMBE: Objection to the form of
8	the composition of that was as well, but	8	the question.
9	Q. What do you mean, you would have to	9	MR. DAKIS: Same objection.
10	look at what the composition of that was?	10	MR. McCOUBREY: Same objection.
11	A. Well, I'd like I would personally	11	A. That is what I'm that was what my
12	like to see more specifics with regard to that.	12	primary focus was.
13	I don't have that information.	13	Q. Is there a secondary focus?
14	Q. Would it be fair to say that valuation	14	A. Market conditions.
15	of auction rate securities was relatively	15	Q. And what were the market conditions?
16	difficult in September of 2008?	16	A. General overall market conditions.
17	MR. TAMBE: Objection to the form.	17	Q. So you would not agree that valuation
18	MR. DAKIS: Same objection.	18	of financial assets was particularly difficult
19	A. I'm not sure that I would necessarily	19	in September of 2008?
20	come to that conclusion given the traded prices	20	MR. TAMBE: Object to the form.
21	that we saw.	21	A. I wouldn't say that at all.
22	Q. So because you took a look at	22	Q. You would not that was a badly
23	strike that.	23	phrased question so let me make sure.
24	When you say the traded prices that	24	When you say you wouldn't say that at
25	you saw, you're referring to the 1,664	25	all, you mean you would not say that valuation
	Page 72		Page 73
1	Page 72 J. Schwaba	1	Page 73 J. Schwaba
1 2			
	J. Schwaba	1	J. Schwaba
2	J. Schwaba of many financial assets was particularly difficult during September of 2008? MR. DAKIS: Objection to form.	1 2	J. Schwaba Q. And you yourself were not involved in valuing adjustable rate securities in September of 2008; is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of many financial assets was particularly difficult during September of 2008? MR. DAKIS: Objection to form. Q. Is that correct? A. Say that again, please. Q. Sure. Is the following statement correct: Valuation of many financial assets was particularly difficult in September of 2008? MR. DAKIS: Objection to form. Q. In your opinion? MR. DAKIS: Objection to form. A. I'm not going to I'm not going to draw that necessarily conclusion. Q. I'm focusing specifically on auction rate securities. Was that a particularly difficult time to value them? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. A. There were challenges with regard to going on in that market. I do know that. Q. You yourself were not engaged in valuing auction rate securities in September of	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schwaba Q. And you yourself were not involved in valuing adjustable rate securities in September of 2008; is that correct? A. That would be correct, except to the extent that we may have had them in our portfolio at the Federal Home Loan Bank, as we have discussed. Q. You valued the securities that you valued as of September 19, 2008; is that correct? A. Based on traded prices. Q. I'm just asking about the valuation date. So you valued as of September 19, 2008; is that correct? A. I'm sorry, I don't understand. Are you saying what did I value back in September 19, 2008? Q. No, I'm not. I'm sorry. Let me try and be clearer. The valuations that you reached were
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1	J. Schwaba	1	J. Schwaba
2	Q. Based on whatever methodology, the	2	Q. Do you know when it was on the 19th?
3	valuation date	3	A. I do not know it specifically.
4	A. Was as of September 19.	4	Q. Do you know whether it was on the
5	Q. Okay. Why did you not value them as	5	22nd?
6	of September 22?	6	A. I answered that before. I think that
7	A. September 19, as I September 19, as	7	was my understanding, but again, I don't know.
8	I understood it, as I do understand it, is when	8	Q. Are you offering an independent expert
9	the September 22 dated as of September or as	9	view that the proper valuation date is September
10	of market as of September 19 was when this	10	19?
11	transaction occurred.	11	A. Yes.
12	Q. When did the transaction close?	12	Q. What is the basis for that view?
13	Before you answer that, when you say	13	A. My understanding of the my
14	"this transaction," you're talking about the	14	understanding of the transaction.
15	sale transaction between Barclays and the Lehman	15	Q. What does that mean, your
16	estate?	16	understanding of the transaction? What about
17	A. That's correct.	17	the transaction leads you to believe that the
18	Q. Do you have any understanding of when	18	19th was the proper valuation date?
19	that transaction closed?	19	MR. DAKIS: Objection to form.
20	A. My understanding is it closed on or	20	A. This is my understanding of when the
21	about midnight on the 22nd, but I could be wrong	21	sale occurred, as I indicated before. I think I
22	on that.	22	answered that before.
23		23	
24	Q. Do you know when title to the		Q. So your expert opinion that the 19th
2 4 25	financial assets passed to Barclays?	24 25	is the appropriate valuation date is based on
25	A. I do not know that exactly.	2.5	your understanding that the sale occurred on the
	Page 76		Page 77
1	J. Schwaba	1	J. Schwaba
2	19th?	2	A. Part of my analysis I derived that
3	MR. TAMBE: Objection to the form of	3	that was the that September 19 was the
4	the question.	4	appropriate date.
5	Q. Is that right?	5	Q. And the basis for your decision that
6	MR. DAKIS: Objection to form.	6	that was the case was the fact that you believed
7	MR. McCOUBREY: Same objection.	7	the transaction took place on the 19th?
8	A. My valuation has to do with the	8	MR. TAMBE: Objection to the form of
9	valuation of a select number of municipal	9	the question.
10	securities as of a given date, and that date is	10	MR. DAKIS: Same objection.
11	September 19.	11	A. The transaction if we were going to
12	Q. And were you asked to assume September	12	provide a reasonable market value as it relates
	_ ·	13	to the transaction, where would you go to find a
13	19 was the appropriate valuation date or did vou	μ Ͻ	
	19 was the appropriate valuation date or did you select that yourself?	14	• •
13	select that yourself?		reasonable market valuation, and the market
13 14 15	select that yourself? MR. DAKIS: Objection to form.	14	reasonable market valuation, and the market the closest time of that market valuation would
13 14 15 16	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please.	14 15 16	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19.
13 14 15 16 17	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please. Q. Yes. Did you yourself independently	14 15 16 17	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19. Q. When you say "closest," you mean
13 14 15 16 17 18	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please. Q. Yes. Did you yourself independently select September 19 as your appropriate	14 15 16 17 18	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19. Q. When you say "closest," you mean closest time?
13 14 15 16 17 18 19	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please. Q. Yes. Did you yourself independently select September 19 as your appropriate valuation date, or were you asked to assume that	14 15 16 17 18 19	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19. Q. When you say "closest," you mean closest time? A. To a real market functioning.
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13 14 15 16 17 18 19 20 21	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please. Q. Yes. Did you yourself independently select September 19 as your appropriate valuation date, or were you asked to assume that was the appropriate valuation date? A. My assumption was that that was the appropriate valuation valuation date.	14 15 16 17 18 19 20 21	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19. Q. When you say "closest," you mean closest time? A. To a real market functioning. Q. Wouldn't, by definition, close of market on September 22 be closer to midnight September 22 than the previous Friday?
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13 14 15 16 17 18 19 20 21	select that yourself? MR. DAKIS: Objection to form. A. Say that again, please. Q. Yes. Did you yourself independently select September 19 as your appropriate valuation date, or were you asked to assume that was the appropriate valuation date? A. My assumption was that that was the appropriate valuation valuation date.	14 15 16 17 18 19 20 21	reasonable market valuation, and the market the closest time of that market valuation would have been as of the close of September 19. Q. When you say "closest," you mean closest time? A. To a real market functioning. Q. Wouldn't, by definition, close of market on September 22 be closer to midnight September 22 than the previous Friday?

Page 78 Page 79 1 J. Schwaba 1 J. Schwaba 2 2 professional opinion, it's better to take actual opposed to valuation as of the 22nd makes to the market data because you know exactly what 3 valuation of the particular securities you 3 happened. You don't know what happened after 4 4 looked at? 5 midnight on the 22nd. 5 A. No, I did not do that specifically. Q. Did you examine the Lehman marks for 6 If the deal closed -- if the deal did 6 7 close on midnight on the 22nd, to say you were 7 the particular securities that you looked at? A. The Lehman marks? I don't believe we 8 going to close as of the close of business on 8 the 22nd, in my opinion, wouldn't be as 9 9 did. 10 10 appropriate as saying -- as taking the close on Q. What's your understanding of the 11 the previous trading day, which would be the meaning of the term "bid price"? 11 12 12 A. My understanding of the bid price close of the 19th. 13 13 would be the price at which buyers will be I'll acknowledge that markets trade 24 14 14 hours, 24/7, but how much volume or liquidity willing to pay for a particular security. 15 are you going to get over a weekend and how much 15 Q. Are the terms "bid price" and "exit 16 volume are you going to get in terms of overseas 16 price" essentially synonymous, as you understand 17 17 markets as well. them? 18 Q. Why does the amount of volume that you 18 A. Not necessarily the same to me. 19 19 get matter to your opinion on that? Q. In what way do they differ? A. In my opinion, it's a better 20 20 A. Well, I think it's, in my mind, an 21 indication of the depth and breadth of the exit price is going to end up being part of a 21 22 market, the volume traded, in my professional 22 net transaction, theoretically. A bid price is 23 what are you willing to pay for something. An 23 opinion. 24 Q. Did you make any effort to quantify 24 exit price is the price at which -- what you 25 25 the difference that valuation as of the 19th as would need to do to exit or to get out of the Page 80 Page 81 1 J. Schwaba 1 J. Schwaba 2 2 market, and I think that they're all -- they're Q. Would you agree that it's appropriate 3 both -- I mean, I think there are some different 3 for purposes of the analysis of the value of the securities to focus on valuations at exit 4 interpretations there for those, those two 4 terms. The most ascertainable aspect of value 5 5 prices? 6 is where prices trade or traded prices are. 6 MR. TAMBE: Objection to the form of 7 Q. Would a bid price ever be higher than 7 the question. 8 exit price? 8 A. I don't -- I'm still -- I don't 9 MR. TAMBE: Objection to the form of 9 understand exactly what -- I have a problem with 10 10 the question. exit prices as a definition. I mean, I don't --11 MR. DAKIS: Same objection. 11 I guess I don't understand exactly what that 12 means. 12 A. I don't know. That's -- I couldn't 13 13 Q. So you're not able to define for me answer that. 14 14 the term "exit price"? Q. Do you agree that it's appropriate for purposes of valuing these securities to focus on 15 15 A. I can attempt to define it, but I'm 16 valuations at bid prices? 16 not sure -- it doesn't have the same certainty 17 17 MR. TAMBE: Objection to the form of associated with it as a traded price. 18 18 Q. Okay. What do you understand an exit the question. 19 MR. DAKIS: Same objection. 19 price to be? 20 MR. McCOUBREY: Objection. 20 A. To me an exit price would be the price 21 A. Again, I say, you know, traded prices 21 at which I would get out of an existing 22 are the best indication, in my opinion. The bid 22 security, and that could be my interpretation of price can become the traded price. You know, 23 23 what that price would be. It wouldn't be a when the security trades, it's when a bid and 24 24 traded price where an actual transaction took

25

place.

25

offer come together.

Page 82 Page 83 J. Schwaba 1 J. Schwaba 1 2 O. Are the values that you provide mid 2 the question. price values or bid or exit price values? 3 3 A. Again, I couldn't answer that. 4 A. They're actual traded prices and they 4 Q. Do you know how traders use the term 5 probably embody a combined bid and offer, bid 5 "mid price"? price and offer price. That's where buyer and 6 6 A. My understanding of "mid price" is 7 seller come together and agree on what the value 7 it's the midway point or halfway point, if you will, between a bid and offer. 8 of a particular security is through the 8 9 mechanism of a traded price. 9 Q. And what is your understanding of how traders use the term "bid price"? 10 Q. Valuing a portfolio of securities for 10 purposes of marking one's books pursuant to 11 11 A. It's the price at which they would be willing to bid for a particular security or buy applicable accounting standards, is it necessary 12 12 13 to mark them to exit prices? 13 a security, a price at which they were going to 14 MR. TAMBE: Objection to the form of 14 pay or buy a security. 15 15 Q. And what's your understanding of what the question. 16 traders use as how traders use the term "ask 16 A. I couldn't answer that question. Q. Is it appropriate to value using exit 17 17 price"? 18 18 prices? A. Ask price or offer price is the price 19 19 at which they would be willing to sell that MR. TAMBE: Same objection. 20 20 A. Again, I couldn't answer that which they already have in their position. 21 Q. And do you know whether your 21 question. 22 valuations are mid or bid? 22 Q. In valuing assets, in valuing 23 23 financial assets, is it necessary to adjust from A. My valuations are based on traded mid to bid prices? prices, and whether that was a mid price or a 24 24 MR. TAMBE: Objection to the form of 25 25 bid price, it's kind of hard to say because at Page 84 Page 85 1 J. Schwaba 1 J. Schwaba the point at which it's done, let's say the 2 basically, but it was basically the traded 2 3 bid/offer is 5 bid at 7 or 5 bid at 8, I'm 3 price. buying -- willing to bid at 5 and offer at 8, 4 4 Q. So the answer to my question is no? okay? Or let's say 5 -- 5 bid at 7. There's a 5 MR. TAMBE: Objection to form. 5 6 market there, a bid/offer spread of 2 points. 6 Q. You did not make any adjustment from 7 The midway point would be halfway between that, 7 mid price to bid price? 8 MR. TAMBE: Objection to form. but I may as a trader decide you know what, I'm 8 MR. DAKIS: Objection to form. 9 going to hit the bid, I got to get out of my 9 10 position, so I might have talked about a mid 10 MR. McCOUBREY: Same objection. 11 price being, you know, 6 between 5 and 7, but I 11 Q. Is that correct? end up doing the trade at 5, okay? So was it --MR. TAMBE: Same objection. 12 12 is 5 -- 5 was at a midpoint. 13 13 A. I'm not sure I can answer that. 14 Q. Is it possible that actual prices 14 Q. What's your understanding of the 15 15 implications of a failed auction for the could have been at ask? 16 interest rate coupon rate that the borrower must 16 A. An actual price could, could end up 17 17 being what the original bid price was or the pay in the context of an auction rate security? offered price was. Could be. 18 18 A. My understanding is that it could, Q. In valuing these securities, you did 19 depending on the individual security, the 19 20 not make any adjustment from mid to bid? 20 security could be auctioned at the maximum rate 21 21 MR. TAMBE: Objection to the form of set. 22 22 Q. Is it your view that a high penalty the question. 23 23 Q. Is that right? rate on an auction rate security makes A. We ended up using the -- we ended up 24 refinancing of that security attractive to the 24 25 25 using the bid -- we called that the bid price, issuer?

	Page 86		Page 87
1	J. Schwaba	1	J. Schwaba
2	A. I can't answer that, but based on what	2	marked as Exhibit 697, do you recognize that as
3	you say, I would not theoretically, I would	3	a copy of your expert report in this matter?
4	say I agree with that.	4	A. I do.
5	Q. Do you know what portion of auction	5	Q. Showing you what has been marked as
6	rate securities have experienced failed auctions	6	Exhibit 698, immediately behind it, do you
7	have been redeemed voluntarily?	7	recognize that as a copy of the errata sheet
8	A. I don't have that information.	8	prepared by you?
9	Q. In order to redeem an auction rate	9	A. Yes.
10	security, the issuer would need to have	10	Q. Looking at paragraph 8 of your report,
11	alternative financing in place; is that correct?	11	page 2?
12	MR. TAMBE: Objection to the form of	12	A. Yes.
13	the question.	13	Q. Do you see in the second bullet point
14	A. I could not necessarily make that	14	you use the phrase "adjustable rate securities
15	· · · · · · · · · · · · · · · · · · ·	15	(hereafter 'ARS')"?
16	assumption.	16	A. Yes.
	(Exhibit 697, Expert Report of Joseph	1	
17	Schwaba, marked for identification, as of	17	Q. And I just want to confirm that you're
18	this date.)	18	using "ARS" to encompass all adjustable rate
19	(Exhibit 698, Expert Report of Joseph	19	securities, including auction rate securities;
20	Schwaba Errata, marked for identification,	20	is that correct?
21	as of this date.)	21	A. (Witness nods.)
22	(Recess; Time Noted: 11:33 A.M.)	22	Q. You need to answer orally.
23	(Time Noted: 11:38 A.M.)	23	A. Yes.
24	BY MR. SHAW:	24	Q. Now, in that bullet point you state
25	Q. Mr. Schwaba, showing you what has been	25	that, "Barclays applied an arbitrary excessive
	Page 88		Page 89
1			
1	J. Schwaba	1	J. Schwaba
2	J. Schwaba 20 percent liquidity discount in determining the	1 2	J. Schwaba A. That's right.
2	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable	1 2 3	J. Schwaba A. That's right. Q. When you did your work in this case,
2 3 4	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable rate securities (hereafter, 'ARS')." Do you see	1 2 3 4	J. Schwaba A. That's right. Q. When you did your work in this case, did you look at only those 26 or did you attempt
2 3 4 5	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable rate securities (hereafter, 'ARS')." Do you see that?	1 2 3 4 5	J. Schwaba A. That's right. Q. When you did your work in this case, did you look at only those 26 or did you attempt to value any other securities?
2 3 4 5 6	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable rate securities (hereafter, 'ARS')." Do you see that? A. Yes.	1 2 3 4 5 6	J. Schwaba A. That's right. Q. When you did your work in this case, did you look at only those 26 or did you attempt to value any other securities? MR. TAMBE: Objection to the form of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable rate securities (hereafter, 'ARS')." Do you see that? A. Yes. Q. What do you mean by "arbitrary"? A. Arbitrary would be a choice made in not necessarily related to the facts of the situation. Q. Do you know how Barclays selected the liquidity discount that applied to municipal securities in this instance? A. Do I know how Barclays did it? Q. Yes. A. I do not. Q. So how do you know it was arbitrary? A. It appeared it appeared to me to be arbitrary. Why, you know, why 20 percent? I'm not sure where that number came from. Q. Turn to the next page, if you would,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J. Schwaba A. That's right. Q. When you did your work in this case, did you look at only those 26 or did you attempt to value any other securities? MR. TAMBE: Objection to the form of the question. Q. Let me back up. Is it your understanding that those 26 securities are all of the municipal securities that Barclays acquired in this transaction? A. No. Q. So it's a subset? A. It's a subset. Q. And my question is the work you've done was valuing that subset, not the entire population of municipal securities Barclays acquired; is that correct? A. There was an analysis done to initially delineate the 19 securities where there was a difference in custodial marks versus
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schwaba 20 percent liquidity discount in determining the exit values of all but five municipal adjustable rate securities (hereafter, 'ARS')." Do you see that? A. Yes. Q. What do you mean by "arbitrary"? A. Arbitrary would be a choice made in not necessarily related to the facts of the situation. Q. Do you know how Barclays selected the liquidity discount that applied to municipal securities in this instance? A. Do I know how Barclays did it? Q. Yes. A. I do not. Q. So how do you know it was arbitrary? A. It appeared it appeared to me to be arbitrary. Why, you know, why 20 percent? I'm not sure where that number came from. Q. Turn to the next page, if you would, paragraph 9. Now, you define something you	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schwaba A. That's right. Q. When you did your work in this case, did you look at only those 26 or did you attempt to value any other securities? MR. TAMBE: Objection to the form of the question. Q. Let me back up. Is it your understanding that those 26 securities are all of the municipal securities that Barclays acquired in this transaction? A. No. Q. So it's a subset? A. It's a subset. Q. And my question is the work you've done was valuing that subset, not the entire population of municipal securities Barclays acquired; is that correct? A. There was an analysis done to initially delineate the 19 securities where there was a difference in custodial marks versus Barclays' marks of greater than a million

		50 0	
	Page 90		Page 91
1	J. Schwaba	1	J. Schwaba
2	the 26, if you will.	2	Q. If you would turn to the Exhibit 2 to
3	Q. So aside from identifying the 26 you	3	your report, please. Is that a listing of the
4	were going to focus on, you did not analyze any	4	26 securities that you valued?
5	of the other municipal securities that Barclays	5	A. Yes.
6	acquired; is that right?	6	Q. And as we previously discussed, there
7	A. I have not, no.	7	are in fact 24 distinct securities, but 2 were
8	Q. Did anyone working for you do that?	8	repeated, right?
9	A. No.	9	A. That's right.
10	Q. Now, in the second sentence of	10	Q. Of these 26 securities, which are the
11	paragraph 9, you state that, "These municipal	11	4 that you believe are not auction rate
12	securities consisted of 20 adjustable rate	12	securities?
13	bonds." Do you see that?	13	A. Well, there are three zero coupons,
14	A. Yes.	14	two fixed coupons, and there's a floating rate
15	Q. And just so we're clear, you believe	15	note, so that's six, and then there's so
16	that all of those bonds were auction rate	16	those would be the non-ARS. You've got I've
17	securities; is that correct?	17	got three in there and I can't match the CUSIP
18	A. I believe that to be true. The one	18	number up there, but three zero coupon bonds,
19	of those 20, the adjustable rate OID, I would	19	two fixed coupon bonds, one floating rate bond.
20	character almost characterize as kind of a	20	Okay?
21	hybrid because of the way it was structured.	21	Q. So that you've just identified six of
22	Q. The adjustable rate OID security	22	them, correct? So what so when you say there
23	aside, the other 19 you believe were all auction	23	are 20, you're essentially double-counting the 2
24	rate securities?	24	that were duplicates; is that right?
25	A. I believe that to be the case.	25	A. That's right, yes, that would be
2.5	A. I believe that to be the case.	<u> </u>	A. That's right, yes, that would be
	Page 92		Page 93
1	Page 92 J. Schwaba	1	Page 93 J. Schwaba
1 2		1.	
	J. Schwaba	1	J. Schwaba
2	J. Schwaba correct, yes.	1 2	J. Schwaba derive a value for that.
2	J. Schwaba correct, yes. Q. So you think there are 18 distinct	1 2 3	J. Schwaba derive a value for that. Q. Okay. So there would be in a
2 3 4	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities?	1 2 3 4	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to
2 3 4 5	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I	1 2 3 4 5	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should
2 3 4 5 6	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I believe. Well, 18 including if you want to	1 2 3 4 5 6	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should exclude the ones that are non-adjustable rate
2 3 4 5 6 7	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I believe. Well, 18 including if you want to include the OID ARS.	1 2 3 4 5 6 7	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should exclude the ones that are non-adjustable rate securities; is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I believe. Well, 18 including if you want to include the OID ARS. Q. All right. Can you tell me which of those auction rate securities had failed auctions? A. I cannot tell you that right now. Q. Is there anything in your work papers that would enable you to do so? A. I don't believe so. In our analysis we did look through them, but I don't believe I have that immediately available. (Exhibit 699, a document bearing Bates Nos. LEH-NAVIGANT 026173 Purdue through IL, marked for identification, as of this date.) Q. Showing you what has been marked as Exhibit 699, can you tell me what this document is, sir?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should exclude the ones that are non-adjustable rate securities; is that correct? A. I believe so, yes. Q. Let's look at the first page of this document. Looking at the first entry, is that one of the securities that you were actually valuing here? A. That would be correct. Q. And that's CUSIP 746189HG7; is that correct? A. That's correct. Q. Do you know whether that was an auction rate security? A. I do not. I cannot tell exactly from here, but it's an adjustable, split adjustable. Q. Okay. And therefore, you don't know whether that was a failed auction rate security?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I believe. Well, 18 including if you want to include the OID ARS. Q. All right. Can you tell me which of those auction rate securities had failed auctions? A. I cannot tell you that right now. Q. Is there anything in your work papers that would enable you to do so? A. I don't believe so. In our analysis we did look through them, but I don't believe I have that immediately available. (Exhibit 699, a document bearing Bates Nos. LEH-NAVIGANT 026173 Purdue through IL, marked for identification, as of this date.) Q. Showing you what has been marked as Exhibit 699, can you tell me what this document is, sir? A. Yes, this is the document that shows	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should exclude the ones that are non-adjustable rate securities; is that correct? A. I believe so, yes. Q. Let's look at the first page of this document. Looking at the first entry, is that one of the securities that you were actually valuing here? A. That would be correct. Q. And that's CUSIP 746189HG7; is that correct? A. That's correct. Q. Do you know whether that was an auction rate security? A. I do not. I cannot tell exactly from here, but it's an adjustable, split adjustable. Q. Okay. And therefore, you don't know whether that was a failed auction rate security? A. I couldn't tell you that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	J. Schwaba correct, yes. Q. So you think there are 18 distinct auction rate securities? A. I think there's actually 17, I believe. Well, 18 including if you want to include the OID ARS. Q. All right. Can you tell me which of those auction rate securities had failed auctions? A. I cannot tell you that right now. Q. Is there anything in your work papers that would enable you to do so? A. I don't believe so. In our analysis we did look through them, but I don't believe I have that immediately available. (Exhibit 699, a document bearing Bates Nos. LEH-NAVIGANT 026173 Purdue through IL, marked for identification, as of this date.) Q. Showing you what has been marked as Exhibit 699, can you tell me what this document is, sir?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schwaba derive a value for that. Q. Okay. So there would be in a listing there should only be then 18 pages to this document? In other words, it should exclude the ones that are non-adjustable rate securities; is that correct? A. I believe so, yes. Q. Let's look at the first page of this document. Looking at the first entry, is that one of the securities that you were actually valuing here? A. That would be correct. Q. And that's CUSIP 746189HG7; is that correct? A. That's correct. Q. Do you know whether that was an auction rate security? A. I do not. I cannot tell exactly from here, but it's an adjustable, split adjustable. Q. Okay. And therefore, you don't know whether that was a failed auction rate security?

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	Page 94		Page 95
1	J. Schwaba	1	J. Schwaba
2	tier down on this sheet?	2	column here
3	A. Yes.	3	A. I'm sorry, where you are you?
4	Q. Can you tell me which of those were	4	Q. Still first page, second column, "PX
5	auction rate securities?	5	Last," do you see that?
6	A. I cannot.	6	A. Last price.
7	Q. Can you tell me which of those were	7	Q. Yes. And would that be a 9/19 price?
8	failed auction rate securities?	8	A. That is correct.
9	A. I cannot.	9	Q. Do you know for certain that there was
10	Q. Can you tell me whether any of those	10	in fact a transaction that took place on
11	transactions let me back up for a second.	11	September 19, 2008 with respect to each of these
12	You remember that we discussed earlier	12	securities?
13	today that certain financial institutions were	13	A. My understanding is that those
14	buying back auction rate securities from their	14	those were five traded prices on September 19,
15	customers for relationship or legal or	15	2008.
16	regulatory reasons?	16	Q. And that would have been drawn from
17	A. I recall you saying that.	17	the MSRB data?
18	Q. Are you able to tell me with respect	18	A. That's right.
19	to any of the five comparables that you selected	19	Q. Looking at the next page, if you
20	whether it was such a transaction?	20	would, and this shows CUSIP 7178182U1; is that
21	A. I cannot tell you that.	21	correct?
22	Q. Turning to page 2.	22	A. That's right.
23	A. I would say it's interesting that they	23	Q. And that's one of the securities you
24	each are trading on or around par.	24	valued?
25	Q. You've got a column here, second	25	A. Yes.
	Page 96		Page 97
1	J. Schwaba	1	J. Schwaba
2	Q. And you were not able to find an	2	Q. Do you know whether it was a failed
3	actual transaction price for that security, were	3	auction rate security?
4	you?	4	A. I can't say that as well.
5	MR. TAMBE: Object to the form of the	5	Q. And of the eight comparables you
6	question.	6	selected, can you tell me whether any of those
7	Q. On the 19th?	7	were auction rate securities?
8	A. We, as I indicated before, I wanted to	8	A. No.
9	stick to the methodology I created. After I	9	Q. And you can't tell me whether any of
10	don't recollect this is one of the bonds where	10	them were failed auction rate securities?
11	there was an actual trade traded on 9/19, but	11	A. That's correct. I will, if I may
12	apart from that, we wanted to stick to the	12	Q. Yes.
13	methodology; I wanted to stick to the	13	A add the additional factor that the
14	methodology that I created.	14	last price traded there was, again, on or above
15	Q. You thought if I remember	15	par.
16	correctly, you think there was one of the	16	Q. And you're referring to the entry
17	auction rates or one of the adjustable rate	17	99.644 on the first line, or what?
18	A. I believe there was one, and if I see	18	A. I'm referring to the eight CUSIPS
19	it, it might jog my memory here.	19	there.
20	Q. If you see it	20	Q. On the eight CUSIPS on the second
21	A. This is not, to the best of my	21	tier, they're comparables, those are 9/19
22	recollection, this was not one of them.	22	prices, as far as you know?
		23	A. That's right.
23	Q. Can you say for sure that this CUSIP	<u> </u>	•
23 24	Q. Can you say for sure that this CUSIP was an auction rate security?	24 24	Q. In selecting your comparables, what
		1	•

	L Py t	<u> </u>	† 136
	Page 98		Page 99
1	J. Schwaba	1	J. Schwaba
2	appropriate comparable for any given security	2	me how many of these were a result of non-arm's
3	you were valuing?	3	length transactions?
4	A. You can basically get an indication if	4	A. Were a result of what?
5	you look across there in terms of the type, the	5	Q. Non-arm's length transactions? Where,
6	rating, both by S&P and Moody's, whether the	6	for example, a
7	callable and puttable features were existed,	7	A. I could not tell you that.
8	the purpose for which the bond, and of course,	8	Q. And I take it the same thing would be
9	the basic type, whether it was revenue or GO,	9	true with respect to each of the other
10	¥ *	10	securities for which you got a security and then
11	as another factor.	11	a list of comps on this document?
12	Q. Did you examine the ratings of the	12	A. Yes.
13	comps?	13	Q. You can't tell me which ones are
14	A. We looked at the ratings of the comps.	14	auction rate securities?
15	That was a factor.	15	A. No.
16	Q. But you don't report the rates of the	16	Q. Can't tell me which are failed auction
17	comps in your work papers, do you?	17	rate securities?
18	A. I'm sorry?	18	A. No.
19	Q. You don't report any of those ratings	19	Q. And you can't tell me which are
20	in this spreadsheet, do you?	20	non-arm's length transactions?
21	A. I don't believe we do, but we did look	21	A. No.
22	at it, but I don't I don't it's not in	22	Q. Looking at the seventh page of this
23	here.	23	document, sir, it's the one with really small
24	Q. And then with respect to these eight	24	type
25	comps, I take it you are also not able to tell	25	A. Oh.
	Page 100		Page 101
1	J. Schwaba	1	J. Schwaba
2	Q which is CUSIP 196479ME6, I		
3	believe.	2 3	to any of the securities you valued what the
4		4	most recent trade date prior to September 19
5	A. Yes, it's the Colorado Housing & Finance Authority.	5	was?
_	Q. Yes. And my question for you, if you	_	A. I cannot.
6	look under "Product Name," it says 2007 B2	6 7	Q. Are you able to tell me with respect
8	weekly FLT RT VRDN. What does the VRDN mean?	8	to any of the comp any of the securities that
9			you valued what the next trade date after
10		9 10	September 19 was? A. I cannot.
11	note. Q. Again, you don't know whether that was	11	
12	an auction rate security; is that correct?	12	Q. For any of the auction rate securities
13	A. No, although I would surmise that it	13	you examined did you analyze the fail rate formula?
14	probably is not based on the fact that it's a	14	A. I did not.
15	variable rate demand note. I could be wrong.	15	
16	Q. Let's put Exhibit 699 to one side for	16	Q. Did you analyze any relevant caps, maximums or exclusions?
17	the moment. Now, one distinction between each	17	A. We did analyze
18	of your comps and, with possibly one or two	18	•
19	exceptions, the securities you were actually	18 19	I'm sorry, could you repeat that
20	valuing is that securities you were actually	20	question previous again? I want to make sure I answered that correctly.
21	valuing is that securities you were actually valuing were not trading, is that correct,	20 21	· ·
22	whereas the comps, by definition, were?	22 22	Q. Sure. For any of the auction rate
23	A. With the exceptions that you and I	23	securities that you examined did you analyze the fail rate formulas?
23 24	were citing.	1	
25	_	24 25	A. Actually, we did look at some of the
۵5	Q. Are you able to tell me with respect	kο	fail rate formulas on an anecdotal when we saw

Page 102 Page 103 1 J. Schwaba 1 J. Schwaba 2 2 A. That is correct. them in the screen shot analysis that we were 3 3 using and/or the official statements that we Q. And is it your understanding that the 4 had, and but they are not -- again, this was 4 way that Barclays arrived at those values was it 5 just general information we were taking in. 5 accepted the BoNY valuations of those 6 Q. So they're nothing you relied on in 6 securities? 7 valuing these bonds -- or, these securities, 7 A. My understanding is that that is what 8 8 I -- that is what was happening. rather? 9 9 Q. So not just Barclays, but also Bank of A. Not based on the methodology you see New York valued each of those securities at that 10 10 here, that's correct. Q. And did you analyze any relevant caps, 11 price; is that correct? 11 12 12 maximums or exclusions? A. That's right. 13 13 A. We definitely analyzed or took note of Q. And I take it you disagree with the 14 14 what they were and were definitely tried to be **BoNY** marks of those securities? 15 as aware as possible of the caps and maximum 15 A. Yes. 16 rates for each of the securities. 16 Q. And you don't know whether Lehman 17 17 Q. Did you analyze any of the look-back valued any of those securities; is that right? 18 18 A. I do not know that. provisions? 19 19 A. As I recollect, no. O. Are any of those securities 20 Q. Now, if you would take a look at 20 Lehman-related, do you know? 21 21 Exhibit 697, which is your expert report, and A. I wouldn't know. again look at the section or, rather, Appendix 22 22 Q. So for 7 of the 24 bonds you examined 23 II -- Exhibit 2, and there are seven securities 23 you determined that BoNY had the wrong marks; is 24 24 here for which the value was 1/10 of a cent; is that correct? 25 25 MR. TAMBE: Objection to the form of that correct? Page 104 Page 105 1 1 J. Schwaba J. Schwaba 2 2 the question. about 30 percent of them; is that right? 3 3 A. If you look at the seven securities, I MR. DAKIS: Same objection. 4 MR. McCOUBREY: Same objection. 4 would conclude that -- I would conclude that my 5 A. My response is that I looked at those 5 marks -- excuse me, my value based on traded and we came up -- we valued each of these prices is a better value, is a correct value. 6 6 7 securities. I valued each of these securities 7 Q. And therefore, BoNY's valuation was 8 the way I thought was the most appropriate 8 incorrect; that's your conclusion? 9 value, and that's what we did. 9 A. I would conclude that my values are 10 Q. And it's fair to say that the value 10 correct. you arrived at was substantially different from 11 11 Q. So you wouldn't draw any conclusion 12 12 about the BoNY valuations for the same the values that BoNY arrived at for each of 13 those seven securities, is that fair? 13 securities that you valued at substantially 14 14 A. That would be correct. more? 15 Q. And does that give you any concern 15 A. I'm not going to draw any conclusions about the reliability of BoNY's marks for the 16 16 on that. 17 securities that it valued? 17 Q. Why not? 18 MR. TAMBE: Objection to the form of 18 A. Because I'm being -- I'm focusing on 19 19 the question. what I think the value of these securities are. 20 20 A. That's to me, you know, given my Q. So, in your view, the BoNY valuations expert opinion, that's -- what I'm concerned 21 could be completely correct; is that what you're 21 22 about is what the value should be on those 22 saying? 23 23 particular securities. A. No. 24 Q. Okay. And by your estimation of the 24 Q. And therefore, in your view, those 25 24 securities that you valued, BoNY was wrong in 25 values are incorrect, right?

Page 106 Page 107 J. Schwaba 1 J. Schwaba 1 2 2 A. I guess that would be correct then. the only correct values? 3 Q. Is there a range of appropriate 3 MR. TAMBE: Objection to the form of 4 valuations for these securities? 4 the question. A. I would not say that. 5 A. We tried to apply the same methodology 5 with some appropriate modifications and then on Q. And that's in part because your values 6 6 7 the non-ARS securities, but these were based 7 depend on your selection of certain proxies, 8 again on a number of factors we've talked about 8 right? 9 9 MR. DAKIS: Objection to the form of and these are the values that we -- that I think 10 10 are correct. the question. 11 MR. McCOUBREY: Same objection. 11 Q. You're saying they're correct to the 12 12 penny? A. I have a methodology that I employ 13 13 A. I would stand by it. I think 14 they're -- I believe that they're correct. 14 Q. And your methodology relies upon the 15 Q. So what you're saying is when you 15 selection of appropriate proxies for valuation? valued the one with the CUSIP 841513LJ1 at 16 16 A. Proxies and/or comparables. 17 17 3,093,446 dollars and zero cents, that that is Q. How are you distinguishing between a 18 18 proxy and a comparable? exactly correct? 19 A. That is what I believe to be the value 19 A. A comparable in the calculation of the 20 of that security. 20 fixed and zero coupon and the floating rate 21 21 Q. And if someone reached a different note, we use conventional bond calculations, and valuation, in your view, that would be 22 the comparables are also factored in as well in 22 23 necessarily wrong; is that what you're saying? 23 terms of coming up with the valuations. So A. I believe that my values are correct. I'm -- you know, but those are the values. 24 24 25 25 Q. And you believe that your values are Q. Let's just focus on the auction rates Page 108 Page 109 1 1 J. Schwaba J. Schwaba Q. If you changed any one comparable --2 for a moment. You didn't use any sort of model 2 to value those, right? 3 3 strike that. 4 A. No. We used the methodology as 4 And in selecting the comparable 5 securities that you used, you acknowledge that 5 defined. you were using judgment; is that correct? 6 Q. And the methodology as defined is you б 7 selected what you believed to be comparable 7 A. Yes. 8 securities? 8 Q. And would it be fair to say that a 9 A. Right. 9 reasonable valuation expert could reach a 10 different conclusion about the appropriateness 10 Q. And you looked at what they had traded 11 at on the 19th? 11 of any particular comparable that you selected? 12 12 A. It would be possible. A. Right. MR. TAMBE: Objection to the form of 13 Q. And you took an average of what those 13 had traded at; is that correct? 14 14 the question. 15 15 A. Exactly. You can answer. 16 16 Q. You didn't weight the average at all? MR. DAKIS: Objection to form. 17 17 Q. And if a -- and in selecting your 18 comparables, you did not focus on whether any 18 Q. Did you analyze it for statistical 19 given comparable -- strike that. 19 significance? 20 20 A. No. In selecting your comparables, you did 21 not take into account whether a given comparable 21 Q. Did you make any effort to determine 22 how sensitive your analysis was to particular 22 was a failed auction rate security? 23 securities you selected? 23 A. I did not. 24 A. I'm not sure I understand that 24 Q. Don't you think it would be important 25 25 to do so if the security you're valuing is a particular question.

Page 110 Page 111 J. Schwaba 1 J. Schwaba 1 2 failed auction rate security? 2 valuing were failed auction rate securities, you MR. TAMBE: Objection to the form of 3 3 did not make any effort to ensure that the 4 the question. 4 comparables you were looking at were failed 5 A. Well, we focused on traded prices, 5 auction rate securities? okay? So if you take a look at the traded 6 6 A. Actually, I don't -- the first part of 7 prices, you can see what the traded prices are, 7 your question I can't -- I don't know whether 8 and the marketplace was saying at that 8 they were failed securities or not, so I'm not 9 particular point in time, on September 19, that 9 drawing a conclusion about that. 10 these traded prices, buyers and sellers were 10 Q. Okay. Well, I'd like you to assume 11 willing to establish prices for those based on 11 that some of them were failed auction rate 12 12 actual transactions. securities, sir. If you assume that some of the 13 13 Q. Right, buyers and sellers were willing securities you valued were failed auction rate 14 to establish prices for the comparables, right? <u>l</u> 4 securities, don't you think it would have been 15 A. For the comparables. 15 more appropriate to have ensured that the 16 16 comparables you used for that security were also Q. Okay. And in terms of looking at the 17 comparables to determine whether they are useful 17 failed auction rate securities? 18 indicators of what the security you're valuing 18 MR. TAMBE: Objection to the form of 19 19 would trade at, you need to be sure those the question. 20 comparables are in fact appropriate comparables, 20 MR. McCOUBREY: Same objection. 21 21 right? MR. DAKIS: Same objection. 22 22 A. I think it's good information to know, A. That would be correct. but would I have differed from my conclusion? I 23 Q. Okay. And in determining whether 23 24 those were appropriate comparables, even though can't necessarily say that. 24 you knew that some of the securities you were 25 25 Q. And you can't necessarily say that you Page 112 Page 113 1 1 J. Schwaba J. Schwaba 2 2 wouldn't have? it were one-tenth of a cent, you know, that 3 3 is -- that would -- that would capture my A. That's true. 4 interest and attention. Q. So to the extent that Barclays relied 4 5 5 on BoNY marks, is it your view that that was Q. If you have a Lehman-related security and Lehman's just gone bankrupt, would that be 6 improper valuation technique? 6 7 7 something you should take into account in MR. TAMBE: Objection to the form of 8 the question. 8 valuing that security? 9 A. I don't want to make -- I'm not sure I 9 MR. TAMBE: Objection to the form of the question. 10 10 would be -- I'm hesitant about making a 11 conclusion about that, but those numbers are 11 MR. DAKIS: Same objection. 12 MR. McCOUBREY: Same objection. 12 very suspect in terms of one-tenth of a cent 13 13 A. My approach would be the same, I value. 14 14 believe. I'd look at the security on its face Q. What if the securities in question 15 and employ whatever appropriate valuation 15 were Lehman-related securities? 16 16 methodologies I felt were appropriate for that MR. TAMBE: Objection to form. 17 17 security and come up with a value, which I Q. Would that have any impact in your 18 18 assessment of whether the valuation assigned believe -- certainly I believe would be 19 19 were appropriate? different than the one-tenth of a cent value MR. TAMBE: Same objection. 20 20 placed on those securities. **b**1 21 A. Well --Q. Might it also be different than the 22 22 essentially 100 cents on the dollar valuation MR. DAKIS: Objection to form. 23 A. -- a one-tenth of a cent value is --23 that you placed on many of those securities? 24 no, that would not. I would still be --24 It could. 25 25 regardless of where these numbers came from, if But you didn't look to see whether any

Page 114 Page 115 1 J. Schwaba 1 J. Schwaba 2 of them were Lehman-related? 2 would be improper simply to accept the BoNY 3 A. I did not. 3 marks; is that correct? 4 Q. So you think that the appropriate 4 MR. TAMBE: Objection to the form of 5 valuation methodology is that the person doing 5 the question. the valuation should not just accept the BoNY 6 MR. McCOUBREY: Same objection. 6 7 marks but should evaluate them independently; is 7 MR. DAKIS: Same objection. 8 that your testimony? A. I believe that I should stick to my 8 9 MR. TAMBE: Objection to the form of 9 independent analysis, and if I see a mark or a 10 10 value there, a dollar value of one-tenth of one the question. 11 A. I believe there should be an 11 percent, and I don't agree -- and obviously I 12 12 independent valuation. don't agree with it, I'm going to come up with 13 13 whatever my appropriate valuation is. Q. And it would be improper technique or 14 improper methodology in your view simply to 14 If somebody wants to interpret that 15 accept the BoNY marks; is that what you're 15 that I don't agree with that, then I suppose 16 saying? 16 that's their -- that's their right, I guess. 17 17 Q. What is your understanding of the MR. TAMBE: Objection. Objection to 18 the form of the question. 18 process that Barclays used to value the MR. McCOUBREY: Same objection. 19 19 municipal securities that it acquired? MR. DAKIS: Same objection. 20 20 A. Are you talking about these particular 21 21 A. I believe I was -- I am hired -- I am 26 securities? 22 here to give, provide an independent valuation, 22 Q. No, I'm talking about the entire and I would stick to that as close as possible. 23 23 portfolio of 562 of which these 26 are a part. 24 Q. In the course of performing an A. I would defer to my other experts on 24 25 independent valuation, your view is that it 25 that. I don't have specific knowledge of those Page 117 Page 116 1 1 J. Schwaba J. Schwaba 2 Q. I was really just bridging back into a 2 particular securities. 3 new topic. 3 Q. I'm not asking about those securities. I'm asking about the methodology that Barclays 4 4 A. Okay. used to value the municipal securities that it 5 Q. So you recall we had a discussion 5 6 6 acquired. about that? 7 MR. TAMBE: Objection to the form of 7 A. Yes. 8 the question. 8 Q. Now, when you criticized Barclays for 9 A. I can't speak with -- with any 9 using a liquidity adjustment, do you reject the authority on those particular securities in 10 basic concept of the adjustment from mid to bid, 10 11 terms of methodology. 11 or do you just reject the particular adjustment 12 12 Q. What about these 26, what methodology that Barclays used? 13 13 did Barclays use to value these? MR. TAMBE: Objection to the form of 14 A. I believe they were using the 14 the question. 15 liquidity haircuts. I mean, they took a 20 15 O. Or both? percent haircut, uniform basis, applying it to 16 16 MR. McCOUBREY: Same objection. 17 17 each of those adjustable rate securities. MR. DAKIS: Same objection. Q. Do you understand the concept of 18 A. You know, to me I think you have to 18 adjusting midpoint prices to exit prices? 19 address each security in and of itself. I mean, 19 20 MR. TAMBE: Objection. Asked and 20 you could -- even from a liquidity adjustment 21 answered. We spent some time on this. 21 factor alone, is 20 percent of liquidity factor 22 MR. DAKIS: Same objection. 22 applicable or appropriate for all securities 23 MR. TAMBE: You can answer. 23 there? 24 A. I guess I thought we discussed it 24 Q. Well, do you understand that Barclays before, but I don't --25 mid to bid adjustment was applied across a broad 25

	Page 118		Page 119
1	J. Schwaba	1	J. Schwaba
2	portfolio of municipal securities, not just the	2	that was intended to be an average across more
3	26 that you cherry-picked?	3	liquid and less liquid munis?
4	A. Yeah, I	4	MR. DAKIS: Objection to form.
5	MR. TAMBE: Objection to the form of	5	A. I do not.
6	the question.	6	Q. Did you consider the risk
7	MR. DAKIS: Same objection.	7	characteristics of the entire portfolio of munis
8	MR. McCOUBREY: Same objection.	8	that Barclays acquired in reaching your
9	A. We didn't cherry we don't	9	conclusions?
10	cherrypick anything.	10	A. I did not.
11	Q. All right. Let me change the phrasing	11	Q. Are you an expert in fair value
12	of that slightly.	12	accounting?
13	Do you understand that Barclays' mid	13	A. No.
14	to bid adjustment was applied across a broad	14	Q. Are you an expert in fair value
15	portfolio of municipal securities, not just the	15	measurement?
16	26 that you valued?	16	A. No.
17	A. That is my understanding.	17	Q. Are you an expert strike that.
18	Q. Do you have any understanding of	18	Take a look at paragraph 8 of your
19	whether that adjustment was intended to reflect	19	report, if you would, please, sir. In the fifth
20	an average across both higher quality and lower	20	bullet point you state that your values are
21	quality munis?	21	based on observed market prices. Do you see
22	A. I did not.	22	that?
23		23	
24	MR. TAMBE: Objection to form. MR. DAKIS: Same objection.	24	A. I'm sorry, where was that? Is that on
25 25	<u> </u>	25	page Q. Page 3.
2.5	Q. Do you have any understanding whether	2.5	Q. rage 3.
	Page 120		Page 121
1	J. Schwaba	1	J. Schwaba
2	J. Schwaba A. Page 3.	2	J. Schwaba Q. So you didn't investigate prices for
	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do	2 3	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at
2 3 4	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that?	2 3 4	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market?
2	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes.	2 3 4 5	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form.
2 3 4 5 6	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you	2 3 4 5 6	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection.
2 3 4 5 6 7	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities	2 3 4 5	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct?
2 3 4 5 6 7 8	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right?	2 3 4 5 6	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection.
2 3 4 5 6 7 8 9	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right.	2 3 4 5 6 7 8	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the
2 3 4 5 6 7 8 9	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a	2 3 4 5 6 7 8 9	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of theif we came across that, we did look at it, so I
2 3 4 5 6 7 8 9 10	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of	2 3 4 5 6 7 8 9 10	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at
2 3 4 5 6 7 8 9 10 11	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of failed auction rate securities traded	2 3 4 5 6 7 8 9 10 11	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at it.
2 3 4 5 6 7 8 9 10 11 12 13	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of failed auction rate securities traded over-the-counter?	2 3 4 5 6 7 8 9 10 11 12	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at it. Q. Well, when you say you if you came
2 3 4 5 6 7 8 9 10 11 12 13 14	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of failed auction rate securities traded over-the-counter? A. No, I'm not.	2 3 4 5 6 7 8 9 10 11 12 13 14	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at it. Q. Well, when you say you if you came across it, the only place you would have come
2 3 4 5 6 7 8 9 10 11 12 13 14 15	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of failed auction rate securities traded over-the-counter? A. No, I'm not. Q. So you didn't investigate prices for	2 3 4 5 6 7 8 9 10 11 12 13 14 15	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at it. Q. Well, when you say you if you came across it, the only place you would have come across it would have been in the MSRB; is that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schwaba A. Page 3. Q. Second bullet point on that page. Do you see that? A. Yes. Q. And those are the prices that you pulled off MSRB for the comparable securities that you selected; is that right? A. That's right. Q. Are you aware that in 2008 there was a small secondary market in which holders of failed auction rate securities traded over-the-counter? A. No, I'm not. Q. So you didn't investigate prices for failed auction rate securities by looking at	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schwaba Q. So you didn't investigate prices for fail auction rate securities by looking at trades in the secondary market? MR. TAMBE: Objection to form. MR. DAKIS: Same objection. Q. Correct? MR. McCOUBREY: Same objection. A. When we looked at analysis of the if we came across that, we did look at it, so I can't say categorically that I didn't look at it. Q. Well, when you say you if you came across it, the only place you would have come
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	J. Schwaba	1	J. Schwaba
2	the question.	2	MR. TAMBE: Objection to the form of
3	MR. DAKIS: Same objection.	3	the question.
4	MR. McCOUBREY: Same objection.	4	MR. DAKIS: Same objection.
5	Q. In September of 2008.	5	MR. McCOUBREY: Same objection.
6	MR. TAMBE: Objection.	6	A. I would want to do I would want to
7	A. Again, say that again, please.	7	have known the information. Would it have
8	Q. Do you know whether in September of	8	altered my analysis? I don't believe so.
9	2008 failed auction rate securities were trading	9	Q. How can you say that without knowing
10	on the secondary markets at a discount to par?	10	what the information is?
11	MR. TAMBE: Objection to form.	11	A. I don't believe I would have.
12	MR. DAKIS: Same objection.	12	Q. Why don't you believe you would have
13	A. I did not know that.	13	altered your analysis without knowing what the
14	MR. McCOUBREY: Same objection.	14	information is?
15	Q. I take it you also do not know the	15	MR. TAMBE: Objection to the form of
16	range of discounts to par that were prevailing	16	the question.
17	in those secondary markets?	17	MR. DAKIS: Same objection.
18	A. That would be correct.	18	MR. McCOUBREY: Same objection.
19	MR. TAMBE: Same objection.	19	A. My methodology had a lot had almost
20	MR. DAKIS: Same objection.	20	everything to do with market traded prices. To
21	MR. McCOUBREY: Same objection.	21	the extent it would have affected those market
22	Q. If there were reported trades of	22	traded prices, then it probably would have
23	auction rate securities at substantial discount	23	affected it. But it would have expressed itself
24	to par on the secondary markets at this time, is	24	in market traded prices, I believe.
25	that something you would have wanted to analyze?	25	Q. Well, what if there were trades in one
	Page 124		Page 125
			rage 123
1	J. Schwaba	1	J. Schwaba
1 2	J. Schwaba of your 24 CUSIPS on a secondary market at say a	1 2	
			J. Schwaba
2	of your 24 CUSIPS on a secondary market at say a	2	J. Schwaba you would, please. The last words there you say
2	of your 24 CUSIPS on a secondary market at say a 70 at 70 percent of par, would that have	2 3	J. Schwaba you would, please. The last words there you say that, "All these bonds had maturities in excess
2 3 4	of your 24 CUSIPS on a secondary market at say a 70 at 70 percent of par, would that have influenced your opinions in this case?	2 3 4	J. Schwaba you would, please. The last words there you say that, "All these bonds had maturities in excess of seven years and, based on the data I have
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Page 126 Page 127 J. Schwaba 1 1 J. Schwaba 2 2 time would be in a better position to exercise A. That was my general impression. Q. Okay. And did you take that 3 judgment than you are 18 months later? 3 4 information into account in your valuations? 4 MR. DAKIS: Objection to form. A. I believe based on the methodology 5 MR. TAMBE: Objection. 5 6 that we chose and were using, yes. 6 A. I don't know. 7 Q. And how did you take that into account 7 Q. You concede that's a possibility? A. I would concede that's a possibility. 8 in your valuation? 8 9 A. Well, we were looking at comparables 9 Q. In paragraph 9 are you referring only to the 24 CUSIPS that you actually examined and and we were looking at ratings. The ratings 10 10 11 not to the broader group of municipal securities were one of the variables involved. L1 12 12 Q. And what was your -- what selection that Barclays acquired? 13 criterion did you apply in determining whether 13 A. Yes. 14 the rating was too far off or too different for 14 Q. And so you don't know whether those 15 it to be an appropriate comparable? 15 other municipal positions that Barclays acquired 16 16 A. It was a qualitative assessment per were also investment grade? 17 individual security. I mean, it depended. 17 A. No. 18 Q. So it was an exercise of your 18 Q. In selecting comparable securities, 19 judgment; is that correct? 19 please tell me as precisely as you can the 20 A. It was partly judgment, that's 20 procedures and rules you used to identify them. 21 21 A. Say that again, please. correct. 22 Q. What I'm asking you is to describe in 22 Q. And in exercising judgment on questions like that, would you expect that 23 23 as much detail as you can the process by which someone who was actively involved in either 24 you selected the comparable securities that you 24 25 25 trading or valuing assets in the market at the Page 128 Page 129 1 1 J. Schwaba J. Schwaba 2 2 A. Well, I believe I indicated it in here geography, but that is -- that was a factor as 3 in the report, but and I think we talked when we 3 well. went over the variables that you saw on top in 4 4 Okay. Well, if you look at paragraph terms of the Exhibit 699, these were a range of 5 23 of your report, which is Exhibit 697, in the 5 variables that we -- that I viewed on a combined second sentence you say, "I began by determining 6 6 7 basis and made a qualitative judgment about 7 the key characteristics of the bonds, 8 whether these comparables applied and how they 8 including," and you list maturity, credit 9 matched up with the particular municipal 9 rating, geographic location, issue type and 10 security selected. 10 revenue sources, do you see that? 11 I mean, whether they were the same 11 A. Yes. geography or same type of bond, same basic type 12 12 Q. Were there any other criteria that you 13 of bond, were their maturity structure, were 13 applied? 14 they callable and puttable, there were roughly 14 A. No, I would say that this is pretty 15 15 five to seven factors that went into the much it. 16 16 decision. Q. Okay. And did you have any fixed 17 17 rules about when, you know, a particular Q. Are there any other factors that went 18 18 into the decision besides the ones that you just security was too different in terms of 19 19 listed? geography, or was it a qualitative judgmental 20 20 A. Or the ones that I mentioned, no. exercise? 21 Q. And when you say the ones you **b**1 A. It was a qualitative assessment. 22 mentioned, are you referring to paragraph 23 of 22 Q. Why was it important to match the issue type, general obligation versus revenue 23 your report? 23 A. Well, I didn't mention -- I think when 24 24 bond? 25 25 you see here it doesn't necessarily include A. I just felt like that was a, you know,

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	Page 130		Page 131
1	J. Schwaba	1	J. Schwaba
2	a good a prominent enough differentiation	2	A. Yes.
3	between a general obligation bond and a revenue	3	Q. Is that the total number of trades or
4	bond.	4	is that the total number of unique municipal
5	Q. So you wouldn't want to use general	5	CUSIPS that traded on that day?
6	obligation bonds as comparables for a revenue	6	A. I believe that was I believe that
7	bond or vice-versa, is that fair?	7	was a total number of trades.
8	A. Well, I don't recall, but there might	8	Q. And then in the next sentence you say,
9	have been some exceptions to that when you look	9	"Some 1,664 were adjustable rate municipal
10	through that. They could have been offset, but	10	bonds"?
11	I can't recall with specificity here, but it	11	A. Yes.
12	could have been offset by other factors that	12	Q. Do you see that? And that would be
13		13	the total number of trades of adjustable rate
14	were that would argue on that. It was just	14	
15	one of, as you can see, five or six or seven	15	municipal bonds that day? A. I believe so.
16	factors.	16	
17	Q. All of which you threw into a hopper,	1	Q. Paragraph 24 of your report, sir, you
	exercised your judgment on, and made a call	17	state in the second sentence, "Once I had
18	about which comps to use?	18	determined that the proxy price was reasonable,"
19	A. That's right.	19	you see that?
20	MR. TAMBE: Objection to form.	20	A. Yes.
21	A. Well, that's right.	21	Q. What do you mean by that?
22	Q. Paragraph 17 of your report, sir, you	22	A. That, relating to what we had talked
23	state that you're able to observe prices on	23	about before, that the proxies were reasonable,
24	12,416 municipal securities that traded on	24	provided a reasonable comparison to the specific
25	September 19, do you see that?	25	security that we were valuing based on those
	Page 132		Page 133
1	J. Schwaba	1	J. Schwaba
2	factors that we talked about.	2	MR. DAKIS: Same objection.
3	Q. Did you take into account credit	3	MR. McCOUBREY: Same objection.
4	enhancement in determining your the	4	A. Yeah, I I don't know.
5	comparability of	5	Q. Can you tell me who the who a
6	A. Actually, credit enhancement was a	6	couple of the major insurers of auction rate
7	factor that we valuated as well when and where	7	securities were in September of 2008?
8	we saw that information.	8	A. I can't say I know. AMBAC and MBIA.
9	Q. How typical is it that an auction rate	9	Q. Any others?
10	or adjustable municipal bond offers credit	10	A. I'm not
11	enhancement protection?	11	Q. Do you have any understanding of what
12	MR. TAMBE: Objection to the form of	12	the financial condition of AMBAC or MBIA were in
13	the question.	13	September of 2008?
14	MR. DAKIS: Same objection.	14	A. In terms of our analysis, we did read
15	•	15	some came across some concern about that, but
16	MR. McCOUBREY: Same objection.	16	not nothing more than that.
	A. I can't recall.	17	-
17	Q. Did you ever know?	1	Q. And did you take that into account
18	MR. TAMBE: Objection to form.	18 19	when you were doing your valuations? A. Yes.
19	MR. DAKIS: Same objection.	1	
20	MR. McCOUBREY: Same objection.	20	Q. How did you take that into account
	A. I can't recall that.	21 22	when doing your valuations?
21	A 137.11 . 11.41 6		a mount i routiurorod it of comothing to
22	Q. Well, would it be fair to say that	1	A. Well, I registered it as something to
22 23	such securities are typically insured upon	23	be mindful of when I'm looking through.
22		1	-

	Page 134		Page 135
1	J. Schwaba	1	J. Schwaba
2	A. Yes.	2	AFTERNOON SESSION
3	Q as to which comparables were	3	(Time Noted: 1:31 P.m.)
4	appropriate?	4	JOSEPH SCHWABA, resumed and
5		5	testified further as follows:
		6	EXAMINATION BY (Cont'd.)
6	MR. SHAW: Why don't we take a short	7	· · · · · · · · · · · · · · · · · · ·
7	break.		MR. SHAW:
8	(Luncheon Recess; Time Noted: 12:41	8	Q. Mr. Schwaba, if you would take a look
9	P.M.)	9	again at your report, which is Exhibit 697, and
10		10	specifically at Appendix II, Documents Relied
11		11	Upon. If you look under the heading "Other
12		12	Documents" about the middle of the page?
13		13	A. Uh-huh.
14		14	Q. Do you see that? You say you have
15		15	Barclays Capital valuation methodology and it's
16		16	got some Bates numbers associated with that, do
17		17	you see that?
18		18	A. Yes.
19		19	Q. Apart from that document, in the
20		20	course of doing your work on this matter did you
21		21	review any other documents prepared in
22		22	connection with Barclays' valuation of the
23		23	securities it received in this transaction?
24		24	MR. TAMBE: Objection to the form of
25		25	the question.
		<u> </u>	the question.
	Dago 136		Dago 127
1	Page 136	1	Page 137
1	J. Schwaba	1	J. Schwaba
2	J. Schwaba MR. DAKIS: Objection.	2	J. Schwaba A. My understanding is that's the
2	J. Schwaba MR. DAKIS: Objection. MR. McCOUBREY: Same objection.	2 3	J. Schwaba A. My understanding is that's the information, some of the information we've been
2 3 4	J. Schwaba MR. DAKIS: Objection. MR. McCOUBREY: Same objection. A. I don't recall.	2 3 4	J. Schwaba A. My understanding is that's the information, some of the information we've been looking at today with regard to comparables, et
2 3 4 5	J. Schwaba MR. DAKIS: Objection. MR. McCOUBREY: Same objection. A. I don't recall. Q. The next item there is entitled	2 3 4 5	J. Schwaba A. My understanding is that's the information, some of the information we've been looking at today with regard to comparables, et cetera, some of the exhibits.
2 3 4 5 6	J. Schwaba MR. DAKIS: Objection. MR. McCOUBREY: Same objection. A. I don't recall. Q. The next item there is entitled "Review of Barclays Capital Price Testing	2 3 4 5 6	J. Schwaba A. My understanding is that's the information, some of the information we've been looking at today with regard to comparables, et cetera, some of the exhibits. Q. Okay. And what about
2 3 4 5 6 7	J. Schwaba MR. DAKIS: Objection. MR. McCOUBREY: Same objection. A. I don't recall. Q. The next item there is entitled "Review of Barclays Capital Price Testing Methodology and Framework" and it's got a Bates	2 3 4 5 6 7	J. Schwaba A. My understanding is that's the information, some of the information we've been looking at today with regard to comparables, et cetera, some of the exhibits. Q. Okay. And what about investinginbonds.com.xlsx, can you tell me what
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	Page 138		Page 139
1	J. Schwaba	1	J. Schwaba
2	MR. SHAW: Do you know, Jay?	2	Showing you what has been marked as
3	MR. TAMBE: I don't know the answer.	3	Exhibit 700, sir, do you recognize that
4	We can check.	4	document?
5	A. I have it in my binder.	5	A. I do not believe I do.
6	MR. SPENCER: It has.	6	Q. Do you know if this is a document that
7	MR. TAMBE: It has been produced.	7	you used in the course of preparing your
8	MR. SHAW: I would appreciate it if at	8	opinions in this case?
9	some point you can identify for me which	9	A. It is not.
10	document that is and also which the Schwaba	10	Q. Do you know if this is a document that
11	market inputs document is.	11	was used by someone working under your direction
12	MR. SPENCER: Sure.	12	in preparing your opinions in this case?
13	Q. Put that so one side. I show you	13	A. It could have been.
14	if we could mark this as the next number.	14	Q. Are you aware that if you used a model
15	Showing you a document showing you	15	in the course of preparing any of your opinions
16	what has been marked as Exhibit 670, sir. Do	16	in this case?
17	you recognize that document?	17	A. Yes, we have used a couple of models
18	A. I don't believe I do.	18	in terms of bonds.
19	(Discussion off the record.)	19	Q. And which of the securities did you
20	(Exhibit 700, a document bearing Bates	20	value the models?
21	Nos. LEH-NAVIGANT 026165 Sheet 1, marked for	21	A. I believe we used, on the fixed and
22	identification, as of this date.)	22	zero coupon and OID, I think we used FINCAD and
23		23	I think we used I think we might have use
23 24	Q. Mr. Schwaba, while we were off the		
25	record, we corrected the exhibit number so let	24 25	Polypath in terms of validating some of our
25	me ask my question again.	25	curve construction.
	Page 140		Page 141
1	J. Schwaba	1	J. Schwaba
2	Q. I take it you do not know what Exhibit	2	have been talking about.
3	700 was used for?	3	Q. And is this data that was input into a
4	A. That is correct.	4	model, sir?
5	Q. And then you don't know where it was	5	A. I think we I think there was
6	obtained?	6	some we used a combination of a model, but
7	A. That's right.	7	this was basically, I believe, our own work in
8	Q. And you don't know how it works?	8	terms of coming up with a value on the, like I
9	A. That's right.	9	said, one of the CUSIPS, which was the floating
10	Q. When you made use of models, did you	10	rate bond, I believe.
11	personally examine the models?	11	Q. How was the data that's listed on this
12	A. No.	12	exhibit used?
13	Q. Were you personally familiar with how	13	A. Well, it was used to construct the
14	the particular models you used worked?	14	price, ultimately the price of the bond based on
15	A. No.	15	using the LIBOR forward curve. As I recollect,
16	Q. Okay.	16	this particular security was I had a couple
17	(Exhibit 701, a document bearing Bates	17	different pricing components. One was basically
18	Nos. LEH-NAVIGANT 026176 Floater, marked for	18	taking 67 percent of, in effect, three-month
19	identification, as of this date.)	19	LIBOR plus adding in a spread of 57 basis points
20	Q. Showing you what has been marked as	20	to it. So and that would be that would be
21	Exhibit 701, sir, tell me what this document is.	21	how the coupon was set on an amounts due a
22	A. This is actually a, as I recollect,	22	periodic three-month basis.
23	this is a valuation spreadsheet that we used,	23	Q. What does the abbreviation "OAS" in
24	and I believe that was the that was to value	24	the second line stand for?
1 -			
25	the floating rate note, one of the CUSIPS we	25	A. Well, the convention is option adjust

Page 142 Page 143 1 J. Schwaba 1 J. Schwaba 2 2 spread. We use it as kind of a term that A. This was a, is my understanding, this 3 3 factors in not only potential optionality but is what we used to fit a particular date for the 4 potentially credit, some type of credit spread 4 security that you saw ahead of this, in terms of 5 that the particular security would have, and 5 its dates, customizing it to reflect a LIBOR 6 it's kind of an add-on feature that can account 6 swap curve to fit that particular curve given 7 for the additional marginal risk of a particular 7 the dates. It's basically an interpolation 8 8 mechanism. It's a -- become a fairly security. 9 Q. If you look at the columns on the 9 conventional bond valuation mechanism. first page, you see "Date," "Years," "Spot"? 10 10 Q. What is a LIBOR swap curve? 11 11 A. Uh-huh. A. That is the -- the LIBOR swap curve is 12 12 Q. And then something called "LIBOR PV," the term structure of interest rates not for 13 13 what does that stand for? treasuries but for basically euro dollars or 14 14 A. I believe it's LIBOR present value, I London Interbank Offered -- LIBOR means London 15 believe. 15 Interbank Offered Rate, and the LIBOR swap curve 16 16 Q. If you turn to the last page, sir, you is basically a combination of the LIBOR curve 17 see up in the right-hand corner, upper 117 and the interest rate swap curve extended on out 18 right-hand corner, there are entries saying 18 from zero to basically 30 years. It's become a 19 19 "Notes"? benchmark for valuing different types of bonds. 20 20 A. Yes. So what you might see when you talk --21 21 Q. It says, "These are continuously when we talked about OAS, or option-adjusted 22 compounded zero rates bootstrapped from LIBOR 22 spreads, you might see -- the benchmark might be the LIBOR curve, but a particular bond may be 23 and swap rates"? 23 24 A. Right. 24 valued to yield let's say 15, as an example, 15 25 25 over the LIBOR benchmark or -- so it could be Q. What does that mean? Page 144 Page 145 1 1 J. Schwaba J. Schwaba 2 2 said to have an option-adjusted spread of 15 FINCAD analysis in relation to this, and I 3 basis points, as an example. That's my 3 believe it came out to be 12 or 13 basis points 4 understanding of it. 4 and so we factored in 15 basis points as an OAS, 5 erring slightly on the side of conservatism. 5 Q. In the course of calculating these 6 values, is there any application of judgment? Q. And would conservatism tend to make 6 7 MR. TAMBE: Objection to the form of 7 the value higher or lower? 8 the question. 8 A. I'm sorry, say again? 9 Q. Is it purely a mechanical calculation 9 Q. You said you were conservative in your 10 or is it something involves that --10 choice of --11 A. It's mostly a mechanical calculation, 11 A. That would make -- a higher OAS would 12 12 except that one selection of an option-adjusted make the price lower, yield higher. 13 spread, and that's where comparables can come 13 Q. I think earlier you referenced the 14 into play. So if you're looking at a bond that 14 Polypass or Polypath model; is that correct? 15 has, other things being equal, some comparables, 15 A. Yes. 16 you could make a judgment as to how much let's 16 Q. Which is it, Polypass or Polypath? 17 say OAS to add to that. So that's where the 17 A. Polypath. 18 comparable effect. So there would be some 18 Q. What is the Polypath model? 19 degree of judgment there. 19 A. It's a bond valuation model. I don't 20 20 Q. And did you use comparables in know the intricacies of it. It's used to test arriving at the OAS, the 15 that was used here? 21 21 bond valuation in different interest rates. 22 A. We did as more of a reference point 22 Q. Before your work on this particular 23 and then factored in other -- and I believe in 23 valuation project, had you ever used the 24 this we had -- we looked at comparables, and as 24 Polypath model? 25 25 I recollect, because we did a, I think some A. I had not.

Page 146 Page 147 1 1 J. Schwaba J. Schwaba 2 Q. What did you do to verify the Polypath 2 done in this case, had you ever worked with the 3 model was an appropriate model to use for the 3 FINCAD model? 4 purposes you used it in this project? 4 A. No. 5 MR. TAMBE: Objection to the form of 5 Q. Did you do any of the work on the 6 6 FINCAD model yourself? the question. 7 A. Polypath is one of the models that we 7 A. No. 8 use to test some of the data that we have in 8 Q. What about the Polypath model, did you 9 running through it, so I don't know if that 9 do any work yourself? 10 10 answers your question or not. A. No. 11 Q. I think you also mentioned another 11 Q. Did you review the work that was done on the FINCAD model, or did you simply 12 model. It sounded like FINCAD to me. 12 13 13 incorporate it into your analysis? A. Yes. FINCAD is a, again, another type 14 14 MR. TAMBE: Objection to the form of of bond valuation, but more of a kind of a 15 work -- interactive worksheet exercise that you 15 the question. 16 16 A. I reviewed the output from it, much as use. 17 17 Q. Is that F-I-N-C-A-D? like we're looking at here. 18 18 A. That's right. Q. When you say you reviewed the output, Q. And what's the source of the FINCAD 19 19 you mean you saw the value that it gave? 20 model? 20 A. Yes. 21 21 MR. TAMBE: Objection to the form of Q. And did you in any way test whether 22 22 the question. that was an appropriate value? A. We had done testing through the -- as 23 A. I'm not sure what the source of that 23 24 part of our analysis and viewed how it stood up 24 is. 25 25 against, again, selected comparables. There was Q. Before this valuation exercise you've Page 148 Page 149 1 J. Schwaba 1 J. Schwaba comparables there. Two had an OIS of 110.8 and 2 a qualitative judgment there, though. 2 3 (Exhibit 702, a document bearing Bates 3 one of 6.2, respectively, and a third 54.9. Nos. LEH-NAVIGANT 026175 Muni, marked for Q. So, just so I understand what's going 4 4 5 on here, if we look at the bottom portion, in 5 identification, as of this date.) 6 other words, is says an analysis of fixed coupon 6 Q. Sir, showing you what has been marked 7 as Exhibit 702, can you tell me what this 7 municipal bonds, do you see that? 8 document is? 8 A. Right. 9 A. The cover page is -- the top four rows 9 Q. The first CUSIP there is number 10 there or let's say the top four sections running 10 239427AG2; is that correct? 11 horizontal are a set of comparables that we use 11 A. That is correct. 12 12 in terms of valuing our zero coupon and fixed Q. Dawson Ridge, Colorado. And the 13 rate bonds. Again, the CUSIP numbers you see 13 comparables you used for that are the three that 14 down below, the first three are zero coupons. 14 appear above the first horizontal line in the 15 15 The next two -- well, the next one is upper section of this? 16 16 a fixed rate coupon. The next one, the Park A. That is correct. 17 17 Center one, is the ARS OID that I've been Q. So that would be E-470 Pub Highway 18 talking about periodically, and Tennessee 18 Auth Colorado and the next two? 19 Housing is the other fixed rate bond. 19 A. That's correct. 20 So when you look at -- the key column 20 Q. And if you look underneath that 21 to look at there is the CP Price. That's the 21 horizontal line that we just looked at where you 22 Chicago Partners, that's our -- that's my price 22 have Savannah, Georgia and Washington, Georgia bonds, do you see that? 23 in terms of valuation, and if you look at the 23 24 first one, for example, Dawson Ridge, Colorado 24 A. Yes. 25 and you look up top, you can see three so-called 25 Q. Those would be comparable to the

Page 150 Page 151 1 1 J. Schwaba J. Schwaba 2 Richmond County, Georgia --2 there were four comparables as a reference point 3 A. That is correct. 3 that we used that were the same, as I recollect, 4 Q. -- on the two values; is that correct? 4 to the floating rate bond. And let's see, I 5 And then beneath those you have got 5 think the second page you see is the same type 6 the two San Joaquin Hills bonds? 6 of bootstrapping page that we saw for the 7 A. That's correct. 7 previous bond over here, and then --8 Q. I take it you're looking at a series Q. And these would be your comparables 8 9 for the San Joaquin, California bond you've got 9 of pages that have "Southeast Texas Called" in 10 the bottom right-hand corner? there? 10 11 A. That's right. 11 A. Well, there's a Southeast Texas Called 12 12 Q. And then below that you've got and that's -- we valued it on a callable basis 13 Regional Transn Auth Ill and New York State Dorm 13 and these are the numbers in support of that, 14 Auth Revs bonds, do you see those? 14 and we came up with a value of 103.77, which is 15 A. That's right. 15 slightly different from 103.92, but not by much. 16 16 Q. What were those the comparables for? We decided to be more conservative in 17 A. Those would be comparable for the two 17 that way and we -- the analysis is done -- it's 18 fixed rate bonds. 18 not quite in the format it is here. You see O. And that would be the Park Center and 19 19 "Southeast Texas Called," and after that you see 20 20 Tennessee? "Southeast Texas Non-call" after that. 21 21 Q. Uh-huh. A. No, that would be the Southeast Texas 22 22 Housing and Tennessee. A. There's a pretty much appreciable Q. And what were your comparables for the 23 23 difference in price, and given, as I recollect, 24 Park Center bonds? the other aspects of the bond, we defaulted to 24 25 25 A. The Park Center bond, it may not be -using the option adjusted spread on both the Page 152 Page 153 1 1 J. Schwaba J. Schwaba 2 Southeast Texas bond and the Tennessee Housing 2 after 4/15/12, we decided to treat it and two fixed, which was an average of those two 3 3 realistically as -- and plus, there's a sinking 4 up here you see on the first page. Okay, you 4 fund that begins as well, that's not 5 5 see the 35 -- if you look at the OAS, the significant, but the -- we decided to treat it as a bond maturing at 4/15/2014 with a current 6 Regional Transportation Auth Illinois and the 6 7 Illinois State Dorm, those were our comparables coupon of 1863 and, therefore, I used a price of 7 8 to those two fixed. We decided to default to 8 86.98, which reflects that OAS 50 that you see 9 using that average OAS for those two, so that 9 there. 10 would apply to both Southeast Texas Housing and 10 Q. What do you mean by a bulletin 11 Tennessee Housing, notwithstanding the analysis 11 maturity? 12 12 we did for that. A. Bullet maturity, a bullet maturity 13 13 Q. Look at the last page of this means it's a three-year bullet maturity, meaning 14 14 it matures in three years. Everything stops document. 15 A. Okay, the last page of the document 15 then. Principal is due. No more coupon 16 16 refers to the Park Center, which was -- and I'm payments. And came up with, again, with a price 17 glad the explanation got here -- Park 17 of 103 -- excuse me, 86.98 on that Park Center, 18 18 Development from a valuation perspective we which was -- that was the OID ARS, okay. 19 19 decided to treat as a bullet maturity. Right Q. Uh-huh. 20 20 now it pays a coupon of 1.863, which is well A. And what's interesting about that is below the LIBOR curve, but on April 14, 2014, 21 21 we actually had four, as I recollect, we had 22 that coupon is going to jump to 6 percent, well 22 three or four comparables, but they didn't seem 23 above the LIBOR forward of 459. On that basis, 23 to have any overt bearing to how this -- how 24 we could justify it's probably a larger OAS to 24 this is priced, so we decided we wanted to take 25 that, and because it's callable at any time 25 the more conservative route and price it

A. Right. Q. And yet you price it above par; is that right? A. No, Park Center wasn't no. No, 17 A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 A. No, Park Center wasn't no. No, 17 Batta right? A. No, Park Center wasn't no. No, 17 A. That's 86.98 D. It's just I thought you seemed to be looking at something else. Who is your current employer, sir? Page 157 Batta right? A. There wasn't no. No, 17 Batta right? A. Diax. Batta right? A. No lax. Who is your current employer, sir? Page 157 Batta right? A. There was a reorganization at Federal Home Loan Bank and, you know, I got basically reorged out, if you will, and so that was what happened. MR. SHAW: He seemed to be going through. A. Diax. Who is your current employer, sir? Page 157 Batta right. A. There was a reorganization at Federal Home Loan Bank and, you know, I got basically reorged out, if you will, and so that was what happened. MR. SHAW: He seemed to be going through. A. Okay. Q. It's just I though you seemed to be looking at something else. Who is your functionally if you will, and so that was what happened. MR. SHAW: He seemed to be ooking at the was the o		L igo	 0 0 0 1 1 1 1 1 1 1 	1 130
2 accordingly. 3 Q. Other 4 A. What's interesting about it also is 5 that, well, if youyou compare it to both 6 Barclays' and BoNY's asyou can see that it's 7 not all that actually, it's not that really 9 different from what Barclays said here in terms 9 of their and BoNY, they're pricing it at 100, 10 so 10 Q. I just want to confirm, that bond, 12 when you treat it as paying below LIBOR, is that 13 correct, throughout its expected lifespan? 14 A. Right. 15 Q. And yet you price it above par; is 15 that right? 16 A. No, Park Center wasn't no. No, 17 Q. Below par? 18 Q. Below par? 19 Q. Below par? 10 Q. Tugess that's why I asked the 19 Q. Below par? 10 Q. And if you take a look at Exhibit 699, 11 J. Schwaba 2 A. The Southeast Texas Housing is at the 24 Associates anymore? 25 A. That's Schwaba & 26 Associates surpmore; 27 A. What's Interesting about it also is 28 Associates without the associates? 29 A. That's Schwaba & 29 Associates without the associates? 20 A. That's actually, yes, pretty true. 21 (Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 20 Continued on the next page to include the jurat.) 21 Continued on the next page to include the jurat.) 22 Continued on the next page to include the jurat.) 23 Continued on the next page to include the jurat.) 24 Continued on the next page to include the jurat.) 25 Continued on the next page to include the jurat.) 26 Continued on the next page to include the jurat.) 27 Continued on the next page to include the jurat.) 28 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Continued on the next page to include the jurat.) 29 Cont		Page 154		Page 155
3 Q. Other— 4 A. What's interesting about it also is 5 that, well, if you — you compare it to both 6 Barclays' and BoNY's as — you can see that it's 7 not all that — actually, it's not that really 8 different from what Barclays said here in terms 9 of their — and BoNY, they're pricing it at 100, 9 so 10 so 10 you treat it as paying below LIBOR, is that 11 correct, throughout its expected lifespan? 12 A. Right. 15 Q. And yet you price it above par; is 16 that right? 17 A. No, Park Center wasn't — no. No, 18 that's — Park Center wasn't — no. No, 18 that's — Park Center wasn't — no. No, 19 Q. Below par? 10 Q. I guess that's why I asked the 10 question. 11 J. Schwaba 12 A. That's 86.98. 13 Q. I guess that's why I asked the 14 question. 15 J. Schwaba 26 Associates of coupon and that's priced at 103.77. 27 Q. And if you take a look at Exhibit 699, 17 A. No, Park Center wasn't — no. 18 that's — Park Center wasn't — no. No, 18 that's — Park Center wasn't — no. No, 19 that's — Park Center wasn't — no. No, 19 that's — Park Center wasn't — no. No, 10 that's — Park Center wasn't — no. No, 10 that's — Park Center wasn't — no. No, 11 that's — Park Center wasn't — no. No, 12 that's — Park Center wasn't — no. No, 13 that's — Park Center wasn't — no. No, 14 this center — 15 M. That's 86.98. 20 Q. I guess that's why I asked the 21 question. 22 Q. I guess that's why I asked the 23 A. The Soundheast Texas Housing is at the 24 5.36 cente outpoun and that's priced at 103.77. 25 Q. And if you take a look at Exhibit 699, 26 A. Well, I'm not calling it Schwaba & 27 A. Shawa and that's priced at 103.77. 28 A. Well, I'm not calling it Schwaba & 29 A. That's actually, yes, pretty true. 10 (Continued on the next page to include the jurat.) 11 J. Schwaba 12 A. Well, I'm not calling it Schwaba & 13 A. Well, I'm not calling it Schwaba & 14 A. Well, I'm not calling it Schwaba & 15 A. Well, I'm not calling it Schwaba & 16 Associates without the associates? 17 A. The rew as a rearganization at Federal Home Loan Bank and, you know, I got	1	J. Schwaba	1	J. Schwaba
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vent to confirm, that bond, vhen you treat it as paying below LIBOR, is that correct, throughout its expected lifespan? A. Right. C. And yet you price it above par; is that right? A. No, Park Center wasn't no. No, that's Park Center was is below. C. Below par? A. That's 86.98. C. I guess that's why I asked the question. A. The Southeast Texas Housing is at the C. Saccent coupon and that's priced at 103.77. C. And if you take a look at Exhibit 699. Page 156 A. Well, I'm not calling it Schwaba & Associates without the associates? A. Well, I'm not calling it Schwaba & Associates without the associates? A. That's actually, yes, pretty true. (Continued on the next page to include the jurat.) D. Continued on the next page to include the jurat.) D. Subscribed and sworn to before mee this day of 2010. D. Subscribed and sworn to before mee this day of 2010.	8	different from what Barclays said here in terms	8	Q. Okay. And that reflects that you
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2	CERTIFICATE	2	INDEX
3	STATE OF NEW YORK)	3	TESTIMONY OF J. SCHWABA: PAGE
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4	COUNTY OF NEW YORK)	5	
5	I, Kathy S. Klepfer, a Registered	6	EXHIBITS: PAGE
6	Merit Reporter and Notary Public within and	7	Exhibit 697, Expert Report of Joseph Schwaba 86
7	for the State of New York, do hereby	8	Exhibit 698, Expert Report of Joseph Schwaba 86
8	certify:	9	Errata
9	That JOSEPH SCHWABA, the witness whose	10	Exhibit 699, a document bearing Bates Nos. 92
10	demosition is harrin before set forth was	11	LEH-NAVIGANT 026173 Purdue through IL
11	duly gream by me and that such densition is		_
12	a true record of the testimony given by such	12	Exhibit 700, a document bearing Bates Nos. 138
13	witness	13	LEH-NAVIGANT 026165 Sheet 1
14	I further certify that I am not	14	Exhibit 701, a document bearing Bates Nos. 140
15	related to any of the parties to this action	15	LEH-NAVIGANT 026176 Floater
		16	Exhibit 702, a document bearing Bates Nos. 148
16 17	by blood or marriage and that I am in no way interested in the outcome of this matter.	17	LEH-NAVIGANT 026175 Muni
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19	deponent nor a party requested a review or	20	
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22	was completed.	22	
23	In witness whereof, I have hereunto	23	
24	set my hand this 12th day of April, 2010.	24	
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2	NAME OF CASE: In re: Lehman Brothers		
3 4	DATE OF DEPOSITION: April 12, 2010 NAME OF WITNESS: Joseph Schwaba		
5	Reason Codes:		
6	 To clarify the record. To conform to the facts. 		
7	3. To correct transcription errors.		
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Exhibit J

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UNITED STATES BANKRUPTCY COURT SOUTHERN DISTRICT OF NEW YORK

In re:

Chapter 11

LEHMAN BROTHERS HOLDINGS INC., et al.,

Case No. 08-013555

Debtors.

(Jointly Administered)

Expert Report of

Joseph Schwaba

March 15, 2010

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LIST OF EXHIBITS AND APPENDICES

Exhibit I: List of CUSIPs valued

Exhibit II: Valuation Results

Appendix I: Curriculum Vitae

Appendix II: List of Documents Relied Upon

Appendix III: Methodology

I. <u>INTRODUCTION</u>

- 1. This report is submitted by Joseph Schwaba. I am an independent consultant working with Navigant Economics (Chicago Partners), a subsidiary of Navigant Consulting, Inc., which specializes in the application of accounting, economics, and finance to business consulting, legal, and regulatory issues.
- 2. I have been asked by counsel for the Movants to undertake a valuation of certain of the municipal securities Barclays' acquired as part of the Sale Transction. Relatedly, I also reviewed the methodologies, procedures, and data Barclays used to value these same municipal securities and reviewed Barclays' expert Professor Paul Pfleiderer's report, dated January 8, 2010 (hereafter the "Pfleiderer Report"), which approves Barclays' methodologies, procedures, and data.

II. SUMMARY OF QUALIFICATIONS

- 3. My main area of expertise is in fixed income capital markets, including expertise in municipal bonds.
- 4. Before beginning my career in banking and fixed income capital markets, I graduated from the University of Notre Dame in 1967 with a degree in Economics. After serving as an officer in the US Marine Corps, I received an MBA in Finance from the Kellogg Graduate School of Management at Northwestern University in Evanston, Illinois.

¹ I submit this report on behalf of (a) Lehman Brothers Holdings, Inc. (the "Debtor" or "LBHI"; (b) James W. Giddens, as Trustee for the Securities Investor Protection Act Liquidation of Lehman Brothers Inc. (the "Trustee"); and (c) the Official Committee of Unsecured Creditors of Lehman Brothers Holdings, Inc. and its affiliated debtors and debtors in possession (the "Creditors' Committee," together with LBHI and the Trustee, the "Movants") in connection with Movants' motions filed under Federal Rule of Civil Procedure 60(b) (the "Rule 60(b) Motions"). In the Rule 60(b) Motions, Movants' seek relief from the Order Under 11 U.S.C. §§ 105(a), 363, and 365 and Federal Rules of Bankruptcy Procedure 2002, 6004 and 6006 Authorizing and Approving (A) the Sale of Purchased Assets Free and Clear of Liens and Other Interests and (B) Assumption and Assignment of Executory Contracts and Unexpired Leases, dated September 20, 2008 (the "Sale Order"). In the Sale Order, the Court approved the sale (the "Sale Transaction") of certain assets of LBHI, LB 745 LLC, and Lehman Brothers Inc. ("LBI," and together with LB 745 LLC and LBHI, the "Sellers," and together with LBHI's various other foreign and domestic affiliates, "Lehman") to Barclays Capital Inc. ("Barclays") in accordance with the terms set forth in an Asset Purchase Agreement, dated as of September 16, 2008 ("Asset Purchase Agreement") and related agreements, modifications and purported "clarification[s]" thereof.

- 5. After managing profitable businesses in the fixed income and derivative markets at firms such as AG Becker (since merged into Merrill Lynch), Prudential-Bache Securities (now Prudential Financial), and Continental Bank (since acquired by Bank of America), I started my own institutional advisory business which focused on market-based risk management in the fixed income capital markets, which included managing a wide range of projects related to fixed income and derivative products, as well as providing some expert testimony. Most recently I was a Director of Corporate Risk Management at the Federal Home Loan Bank Pittsburgh.
- 6. Chicago Partners charges an hourly rate of \$580 for my time. Other Chicago Partners professionals, working under my direction and supervision, assisted in my analyses and Chicago Partners was or will be compensated for their work at their customary hourly rates. Our compensation is not contingent in any way upon the outcome of this matter.
- 7. My experience is described in more detail in my curriculum vitae, which is attached as Appendix I.

III. SUMMARY OF OPINIONS

- 8. My analysis of Barclays' valuation of the municipal securities acquired in the Sale Transaction results in the following conclusions:
 - Barclays undervalued the municipal bonds it acquired from Lehman by at least \$152 million.
 - Barclays applied an arbitrary and excessive twenty percent "liquidity discount" in determining the "exit values" of all but five municipal adjustable rate securities (hereafter "ARS"). The market for municipal bonds on September 19, 2008 did not support across-the-board haircuts of this magnitude. In fact, many comparable municipal securities were trading at or close to par.
 - Barclays priced the remaining five ARS, one fixed rate municipal bond and one \$75 million floating rate bond at close to zero when, in fact, their market values were \$43,295,720, \$3,093,415 and \$61,336,500 respectively.

- Barclays' valuations are further flawed by their inappropriate use of September 22, 2008 as the valuation date.
- My valuations are based on observed market prices for comparable municipal bonds on September 19, 2008. As a result, they are better measures because they are based on actual traded prices.
- The Pfleiderer Report erred by accepting Barclays' flawed exit values for municipal bonds, and its opinions should be disregarded.

IV. OPINION AND BASES THEREOF²

Opinion 1: Barclays' Exit Value Marks Are Incorrect And Represent A Lack Of Proper Analysis And Calculation

A. COMPOSITION OF THE MUNICIPAL PORTFOLIO AND BARCLAYS' EXIT $\underline{\text{VALUE}}$

9. Barclays acquired a municipal bond portfolio (hereafter the "Municipal Portfolio") of twenty-six securities with a principal value of \$382,353,446.³ These municipal securities consisted of twenty adjustable rate bonds, one floating rate bond, three zero coupon bonds, and two fixed rate bonds. All of these bonds had maturities in excess of seven years and, based on the data I have reviewed, were investment grade.

² My analysis in this matter is ongoing and I reserve the right to supplement my analysis in response to any newly produced evidence or in rebuttal to any further opinions offered by Barclays' witnesses. I also reserve the right to do a more comprehensive CUSIP-by-CUSIP valuation, if necessary, of those securities I did not independently value for purposes of my report. In reaching my opinions, I have conducted my valuation of the securities based on closing prices on September 19, 2008 for settlement on that date. I have reviewed the available data regarding market conditions from the close of business in the United States on Friday, September 19, 2008 to the opening of business in the United States on Monday, September 22, 2008 and have concluded that any valuations which are based on closing prices on September 19, 2008 would not change materially.

³ There are twenty-six municipal bonds that make up the "Municipal Portfolio". Nineteen are municipal bonds that were a part of the Sale Transaction on September 22, 2008 that had a dollar value difference greater than \$1,000,000 between the absolute value derived by BoNY and that of Barclays. Seven represent an analogous grouping of municipal bonds that are all priced at one tenth of a cent and are attached to the bottom of the "Rates" tab of BCI-EX-0099519 (Dep. Ex. 86B). This analogous group drew my special attention in addition to the nineteen that exceeded the \$1,000,000 threshold.

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- 10. Barclays' value for the Municipal Portfolio (hereafter "Barclays' Exit Value") was \$191,220,214.4
- 11. Barclays applied a uniform twenty (20) percent liquidity discount to fifteen of the twenty ARS in the Municipal Portfolio, and valued the remaining five (5) ARS at close to zero (i.e., one tenth of a cent per \$100 face value). In addition, Barclays valued the Massachusetts Floating Rate Bond (hereafter the "floating rate bond")⁵ at close to zero (i.e., \$750, or one tenth of a cent per \$100 face value). However, despite the magnitude of these mark downs, I have not seen a basis, documentation, or any justification for this pricing approach.
- 12. Given the number of municipal bonds traded on September 19, 2008, and after reviewing the related pricing data, I conclude that these haircuts were excessive and without proper justification, regardless of any perceived concerns regarding liquidity in the marketplace.
- 13. Market conditions on and around September 19, 2008 undoubtedly affected the liquidity of municipal securities. However, such concerns should have been reflected in their market prices. As a result, I believe that the securities' actual market prices on September 19, 2008 are the best indicators for valuing the Municipal Portfolio. In fact, many comparable municipal ARS were trading at or close to par, which does not support Barclays' twenty percent across-the-board haircut or a price of one tenth of a cent.

B. INDEPENDENT VALUATION OF MUNICIPAL PORTFOLIO

- 14. I have conducted an independent valuation of each of these twenty-six municipal bonds.
- 15. In my opinion, based on actual traded prices these bonds had a value of \$343,303,233 on September 19, 2008. Barclays' Exit Value for these bonds was \$191,220,214, or \$152,083,019 less than my independent valuation.⁶ This \$152,083,019 difference represents the extent to which the Barclays' Exit Values underestimated the value of the Municipal Portfolio at the time of the Sale Transaction.

⁴ The Barclays' Exit Price marks for the twenty-six CUSIPS comprising the Municipal Portfolio can be found in underlying spreadsheets rolling up to Barclays' Sale Transaction balance sheet. BCI-EX-0099519 (Dep. Ex. 86B).

⁵ See Appendix III for a breakdown of my methodology.

⁶The results of my valuation are summarized in Table 1 and are attached to this Report as Exhibit II.

		Table 1		
	# of	Correct	Barclays' Exit	Valuation
Bond Type	Bonds	Valuation	Value	Difference
Municipal				
Bonds	26	\$ 343,303,233	\$191,220,214	\$152,083,019

- 16. My prices, unlike Barclays', are based on observed market prices for comparable securities on September 19, 2008. My use of actual market prices to value municipal bonds explains most of the differences between my valuations and Barclays' Exit Values for these same securities.
- 17. Using data available from the Municipal Securities Rulemaking Board ("MSRB"), accessed by means of Bloomberg Research systems, I was able to observe prices on 12,416 municipal securities that traded on September 19, 2008. These securities had an average price of 99.05. Some 1,664 were adjustable rate municipal bonds, which traded at an average price of 99.89. Many of these bonds had characteristics that were very similar to ARS that were part of the Municipal Portfolio, and thus served as appropriate proxies for my valuations.
- 18. \$83,631,151 of the difference between my valuations and Barclays' can be attributed to my use of market prices that were at or close to par for the ARS. These market prices reflect the price of similar municipal ARS that traded on September 19, 2008. While there were concerns regarding liquidity, the large number of trades on that day clearly demonstrates that markets were functioning and that buyers and sellers could find opportunities to trade at market prices. Thus, market data provides the best and most accurate way to assess the value of the Municipal Portfolio under these market conditions.
- 19. Based on my analysis of these comparable securities, I conclude that the ARS in the Municipal Portfolio had a value based on actual traded prices of \$242,287,584 on September 19, 2008.
- 20. Another \$61,335,750 of the difference between my valuations and Barclays' can be attributed to my use of market data in my valuation of the floating rate bond. This floating rate bond had a notional amount of \$75,000,000, but was priced by Barclays at a level of one tenth of

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a cent. However, based on widely accepted bond valuation methods, benchmark interest rate data, and market price data on comparable bonds that traded on September 19, 2008, I conclude that this bond is accurately priced at a level of 81.78, given market conditions at that time.

- 21. Barclays based its price for the floating rate note on the Bank of New York's (hereafter "BoNY")⁷ valuation (\$750, or one tenth of a cent.) However, based on the production documents I have reviewed⁸, Barclays seems to have obtained—but rejected—a separate, third-party price of 71.56 made through Financial Times Interactive Data (hereafter "FTID") that would have led to a valuation of \$53,667,000, which is similar to my value of \$61,336,500. The only instances in the Municipal Portfolio in which Barclays accepted BoNY's valuations were for the seven municipal bonds (the floating rate bond, one fixed rate bond and five ARS) that were priced by BoNY at one tenth of a cent. This once more reveals a lack of proper analysis and calculation by Barclays, and is an example of Barclays' picking and choosing values subjectively.
- 22. Finally, \$7,166,118 of the difference between my valuations and Barclays' can be attributed to my use of market data to price the three zero coupon bonds and two fixed coupon bonds.
- 23. My valuation approach is fully consistent with industry practices. I began by determining the key characteristics of the bonds, including their maturity, credit rating (as of September 19, 2008), geographic location (defined by issuer and municipality), issue type (General Obligation vs. Revenue Bond) and revenue sources. I then used this data to identify bonds that could serve as "proxies" for these securities. Out of the 1,664 municipal ARS that traded on September 19, 2008 and had the requisite data, I selected one hundred fifty-four trades to use as proxies. In selecting these proxies, I attempted to find securities that matched the characteristics of the bonds of the Municipal Portfolio as closely as possible. The number of proxies that I used to value a given security ranged from a low of three to a high of twenty-four, with an average of eight and a half.
- 24. Once I had constructed a proxy bond universe for each bond in the Municipal Portfolio, I obtained the traded market prices of the underlying securities, and calculated the mean for each

⁷BoNY is the custodial bank of the Lehman Brothers assets held in repo. The BoNY prices reflect the value attributed to securities in the Municipal Portfolio by BoNY as of September 19, 2008.

⁸ BCI-EX-0099519 (Dep. Ex. 86B).

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set of proxy bonds. Once I had determined that the proxy price was reasonable, I multiplied the derived market price by the notional principal to obtain a value based on market traded prices for each adjustable rate bond of the Municipal Portfolio. My approach was similar for the floating rate note, fixed, and zero coupon bonds in that, as part of the bond valuation process, I referenced market traded prices, spreads, and yields of comparable bonds to help establish a reasonable market price. Once I had determined that the market price was reasonable, I multiplied the market price by the notional principal to obtain a value based on market prices for these types of bonds.

Opinion 2: Professor Pfleiderer Was Incorrect In Accepting Barclays' Exit Price Marks

- 25. The Pfleiderer Report did not independently value any of the bonds in the Municipal Portfolio. To the contrary, the Pfleiderer Report failed to provide any documentation or supporting analysis to justify the values in the portfolio except to accept the exit values provided by Barclays. These exit prices imposed excessive liquidity haircuts on all of the ARS in the portfolio, and erroneously valued seven of the securities at one tenth of a cent on September 19, 2008.
- 26. Reliance on actual market data explains most of the differences between my valuation and Barclays' Exit Values. Since my valuations were grounded in observable market data and Barclays' were not, the Pfleiderer Report's opinions on these securities should be disregarded.

Submitted by:

Joseph Schwaba March 15, 2010

pmalarh

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Appendix I Curriculum Vitae

JOSEPH SCHWABA

Residence: 412-220-7741

1305 Wellington Drive

Cell: 412-841-1925

Upper St. Clair, PA 15241

Email: joeschwaba@yahoo.com

SUMMARY

Senior financial markets executive with leadership and management experience in all aspects of trading, risk management, and marketing of securities and derivative products. Extensive background in the successful management of capital markets and derivative businesses, with expertise in proprietary risk management, product development, and the successful execution of trading and marketing strategies.

PROFESSIONAL EXPERIENCE

FEDERAL HOME LOAN BANK OF PITTSBURGH – Pittsburgh, PA

2003 - 2009

A Government Sponsored Enterprise chartered by Congress to assure the flow of liquidity through its member financial institutions into the American housing market.

Director, Corporate Risk Management

Managed the Corporate Risk Return Department: responsible for all aspects of interest rate risk management, including modeling, measurement, and reporting of market risk, earnings risk, and risk-based capital adequacy to senior bank management.

• Significantly expanded the quality and quantity of staffing to achieve business objectives.

- Successfully oversaw the transition to a more complete, up-to-date asset liability
 modeling system that became the Bank's primary system for interest rate risk
 management and risk-based capital analysis, management, and reporting.
 - ➤ Coordinated the approval of the new asset liability modeling system with the Bank's regulator, the Federal Housing Finance Agency (FHFA).
 - > Transition and subsequent system upgrades were done on time and within budget.
- Department was recognized as increasingly integral to the analytical process involved in management decisions regarding valuation, earnings, and capital management through expanded and more comprehensive risk analysis.
- Voting member of Bank's Asset Liability Committee, and member of the Pricing and Market Risk Advisory sub-committees.

SCHWABA & ASSOCIATES - Chicago, IL

2000 - 2003

Trading & Risk Management Advisory Services

President

Advised and trained clients on the use of derivative products to improve Treasury and Portfolio risk management. Client business activity included:

- Providing expert testimony in four selected NYSE and NASD Arbitration cases.
- Trading advisor and manager in a Predictive Model joint venture with an established option/equity trading firm and an innovative software company, specializing in pattern recognition of publicly-traded stock prices.
- Advising major equity option trading and market making firm on trading OTC derivatives related to market volatility.
- Successfully locating a global financial institution to become equity investor and strategic business partner with this newly created firm specializing in origination and distribution of fixed income products to retail investors

ABN AMRO NORTH AMERICA – Chicago, IL

1996 - 1999

Financial sector leader for large global bank enhancing its capital management and market presence in key strategic areas.

Senior Vice President

Developed new markets supporting business direction of Company.

- Started and managed over-the-counter derivatives collateralization as a key strategic business initiative, including effects on risk-based capital. Represented Bank as one of ten charter members of the Chicago Mercantile Exchange (CME) Depository Trust Company.
- Developed structured investment products for Capital Markets and selected Commercial Banking Departments.

SCHWABA & ASSOCIATES – Chicago, IL

1991 - 1995

Trading & Risk Management Advisory Services.

President

Advised and trained clients on the use of derivative products to improve Treasury and Portfolio risk management. Client business activity included:

- Developing a strategy-based business framework for building profitable relationships
 with financial institutions. Participated in preliminary design of a global, multi-currency
 depository to collateralize OTC derivative transactions.
- Arranging and advising on prospective Sale Transaction related to over-the-counter (OTC) equity derivative market making.
- Advising a Chicago-based equity index/option market making firm regarding entry and participation in OTC equity derivatives market making.
- Training of personnel in Capital Markets financial products.

- Development of proprietary fixed income risk management software for senior management.
- Development of a global derivatives products business plan for a major Asian bank.

BANK OF AMERICA (formerly Continental Bank) – Chicago, IL 1986 – 1990 *Provider of banking and financial services to individuals, small businesses, and commercial, corporate, and institutional clients.*

Managing Director

Established Continental as one of the pre-eminent firms in marketing risk management services to US corporate customers.

- Grew business from zero revenues in 1987 to revenues of \$60mm in 1990.
- Drove business profitability to a net operating income of \$30mm, and return on equity was in excess of 150%, one of Continental's most profitable businesses.
- Managed the training and education of over 200 relationship managers and support personnel for marketing derivative products by partnering with the Bank's corporate banking department.
- Managed Continental's Primary Dealer business involving the trading, underwriting, and distribution of US Treasury and US Government Agency securities.

EDUCATION

MBA (Finance) – Northwestern University, Chicago, IL

BA (Economics) – University of Notre Dame, South Bend, IN

MILITARY

First Lieutenant – US Marine Corps

Air Traffic and Air Defense Control - South Vietnam

ADDENDUM

Professional Registrations

- Series 3; registered as an Associated Person of the Commodity Futures Trading Commission (CFTC) (1978-2001)
- Series 7, registered as a General Securities Representative of the National Association of Securities Dealers (NASD) (1978-1991) (1996-2001)
- Series 63, registered as a Uniform Securities Agent under the Uniform Securities Act (1996-2001)
- Registered with the Commodity Futures Trading Commission (CFTC) as a Commodity Trading Advisor (1992-1996) and Introducing Broker (1992-1994)
- Series 8, registered as a Limited Principal, General Securities Sale Supervisor (NASD) (1985-1991)

Professional Memberships

- Member, International Monetary Market of the Chicago Mercantile Exchange (1983-1990), Interest Rate Options Committee (1985), Interest Rate Futures Committee (1986-1987)
- Associate Member, Chicago Board of Trade (1986-1990)
- Public Securities Association Primary Dealers Committee (1986-1988), Options Committee (1988)
- Member, New York Futures Exchange (1983-1985)

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Appendix II **Documents Relied Upon** Contains Highly Confidential Information

Documents in the Record

Depositions	

Date Deponents Paul Pfleiderer 2/23/2010

Deposition Exhibits

Exhibit	Beginning Bates	Ending Bates
86B - Initial Inventory, Schedule A and B Assets	BCI-EX-00099519	BCI-EX-00099521
533A - Lehman Acquisition Assets Summary	BCI-EX-00295932	BCI-EX-00295933

25 - Clarification Letter

 $24\mbox{ -}$ First Amendment to the Asset Purchase Agreement

495 - Debtor's Motion for an Order, Pursuant to Fed. R. Civ. P. 60 and Fed. R. Bankr. P. 9024, Modifying the September 20, 2008 Sale Order and Granting Other Relief, September 15, 2009

633A Report of Paul Pfleiderer, Volume 1, dated Jan. 8, 2010 634A Report of Paul Pfleiderer, Volume 2, dated Jan. 8, 2010

Other Documents

Description	Beginning Bates	Ending Bates
Barclays Capital Valuation Methodology	BCI-EX-(S)-00213991	BCI-EX-(S)-00213992
Review of Barclay's Capital Price Testing Methodology and Framework	PwC-BarCapWP- 00022935	
Debtors' Adversary Complaint, dated Nov. 16, 2009		
Motion of Official Committee of Unsecured Creditors of Lehman Brothers Holdings Inc., et al.,		
Pursuant to 11 U.S.C. § 105(a), Fed. R. Civ. P. 60(b), and Fed. R. Bankr. P. 9024, for Relief		
from Order Under 11 U.S.C. §§ 105(a), 363, and 365 and Federal Rules of Bankruptcy		
Procedure 2002, 6004 and 6006, dated Sept. 15, 2009		
Official Committee of Unsecured Creditors' Adversary Complaint, dated Nov. 16, 2009		
The Trustee's Adversary Complaint, Nov. 16, 2009		
The Trustee's Motion for Relief Pursuant to the Sale Orders or, Alternatively, for Certain		
Limited Relief Under Rule 60(b), September 15, 2009		

Documents that are Publicly Available

Investinginbonds.com

Other Documents Not Cited in the Record and Not Publicly Available

Lehman Brothers Municipal Market Commentary, September 5, 2008 Barclays Capital Municipal Market Commentary, October 3, 2008 Bloomberg L.P. Data Investinginbonds.com.xlsx Schwaba_Market Inputs.pdf

Appendix III

Methodology

I. Adjustable Rate Securities

- 27. Regular auctions of ARS are designed to reset the coupon on the bonds to reflect current market conditions and the credit worthiness of the borrowers. A dealer conducts an auction to set the rate. Investors specify the lowest rate they will accept to hold the bonds until the next auction. Typically, the broker conducting the auction begins with the customers submitting the lowest yields and accepts their commitment to invest. The broker then accepts commitments from customers bidding successively higher rates until the amount of accepted bids equals the amount of bonds being auctioned. Usually, the accepted investors all earn the highest accepted rate at the auction.
- 28. Investors that held bonds at the time of the auction will retain their position if they are among the accepted bidders. Investors that held bonds at the time of the auction but were not among the accepted bidders will transfer their bonds to new owners and receive \$100 per \$100 notional plus previously accrued income. The auction process sets the rate consistent with a price at par (100 percent of face value).
- 29. The auction process makes the prices of many ARS close together and close to par. However, the rates assigned by the auction process are not equal across companies and over time. Instead, the rates reflect the specific credit risk of individual bonds and the market conditions.
- 30. Some auctions cannot set a coupon rate at a level where investors are willing to accept all the bonds being auctioned. This is called a failed auction. Failed ARS would trade below par and may be subject to restricted liquidity. There also is a maximum auction rate established for each bond.
- 31. Given the lack of uniformity for securities with coupon rates set by auction process in the ARS market, I used a market-price approach to value the ARS in the Municipal Portfolio. I first determined key characteristics of each bond in the portfolio, including auction history, on or around September 19, 2008. I then used the MSRB data base to determine proxy bonds reflecting key characteristics of each Municipal Portfolio security on September 19, 2008.

I then obtained traded market prices for each of these proxy bonds and calculated the mean for the prices of each set of proxy bonds. I then multiplied the derived market price by the notional principal to obtain a dollar market value for each ARS.

II. Zero Coupon Bonds

- 32. The Municipal Portfolio includes three issues that pay no explicit coupon. Instead, the bonds are traded at a discount from par. The investor expects to receive the face value of the bonds and the difference between the face value and the market price reflects the interest the investor expects to earn over the life of the investment.
- 33. The positions were valued using market interest rates. Specifically, the rate reflects LIBOR (the London Interbank Offered Rate) plus a spread reflecting the credit conditions of the issuing municipality. The proper spread is determined by reviewing prices of comparable bonds that traded on September 19, 2008 to calibrate the pricing model used to price the zero coupon bonds.

III. Fixed Coupon Bonds

34. Fixed coupon bonds are valued much like zero coupon bonds, except that the LIBOR curve provides inputs for pricing multiple cash flows (regular coupons and repayment of principal). As with the zero coupon bonds, the bonds are priced at a spread above the LIBOR rates reflecting the credit conditions of the issuer. The spread is determined by observing the prices of comparable issues and calibrating the model to accurately price the comparable bonds, and then apply the model to the fixed coupon bonds in the position.

IV. Floating Rate Notes

35. The first step in valuing the floating rate bonds is to forecast all of the coupons up to maturity. The method used is commonly used in pricing floating rate notes and reflects the LIBOR curve. These projected coupons provide a basis for calculating cash flows. These projected cash flows and the principal payments are discounted at rates determined from the LIBOR curve and include a spread to reflect the credit conditions of the individual issuers. The

08-13555-mg Doc 8510-2 Filed 04/20/10 Entered 04/20/10 17:00:55 Exhibits F - L Pg 87 of 136

Contains Highly Confidential Information

spread is determined by applying the same method to value comparable bonds to calibrate the floating rate pricing model.

Asset Class	CUSIP
Municipal Bonds	57582PJQ4
	254839J87
	373109BJ5
	196479ME6
	239427AG2
	764595AA2
	656178BE9
	798111AU4
	64986MUV5
	13033EKM4
	700404AA4
	917436CZ8
	517840D76
	649842AT8
	61213EFP4
	927781CQ5
	91754RLP0
	45200KZ35
	880459B35
	254839J87
	656178BE9
	841513LJ1
	574217JB2
	709223TC5
	7178182U1
	746189HG7
	26
Total Sum	26

Exhibits F - Contains Highly Confidential Information

Asset Class	CUSIP	Chicago Partners Bid Value 09/19/08	Barclays Bid Value	Difference between Chicago Partners and Barclays Values (bid to bid)
Municipal Bonds	57582PJQ4	\$61,336,500.00	\$750.00	\$61,335,750.00
•	254839J87	\$42,290,904.78	\$33,780,000.00	\$8,510,904.78
	373109BJ5	\$32,782,493.70	\$26,120,000.00	\$6,662,493.70
	196479ME6	\$23,480,000.00	\$18,784,000.00	\$4,696,000.00
	239427AG2	\$9,813,504.30	\$8,604,300.00	\$1,209,204.30
	764595AA2	\$10,700,400.00	\$9,100,000.00	\$1,600,400.00
	656178BE9	\$19,450,000.00	\$15,560,000.00	\$3,890,000.00
	798111AU4	\$12,216,611.10	\$11,683,200.00	\$533,411.10
	64986MUV5	\$14,125,000.00	\$141.25	\$14,124,858.75
	13033EKM4	\$12,350,000.00	\$9,880,000.00	\$2,470,000.00
	700404AA4	\$12,834,120.00	\$9,880,000.00	\$2,954,120.00
	917436CZ8	\$11,970,000.00	\$9,576,000.00	\$2,394,000.00
	517840D76	\$10,000,000.00	\$8,000,000.00	\$2,000,000.00
	649842AT8	\$8,397,144.00	\$6,720,000.00	\$1,677,144.00
	61213EFP4	\$7,237,051.50	\$5,800,000.00	\$1,437,051.50
	927781CQ5	\$6,524,955.20	\$5,216,000.00	\$1,308,955.20
	91754RLP0	\$6,400,000.00	\$5,120,000.00	\$1,280,000.00
	45200KZ35	\$5,100,000.00	\$4,080,000.00	\$1,020,000.00
	880459B35	\$3,855,187.50	\$3,175,500.00	\$679,687.50
	254839J87	\$125,195.10	\$100,000.00	\$25,195.10
	656178BE9	\$50,000.00	\$40,000.00	\$10,000.00
	841513LJ1	\$3,093,446.00	\$30.93	\$3,093,415.07
	574217JB2	\$5,200,000.00	\$52.00	\$5,199,948.00
	709223TC5	\$8,000,000.00	\$80.00	\$7,999,920.00
	7178182U1	\$7,971,520.00	\$80.00	\$7,971,440.00
	746189HG7	\$7,999,200.00	\$80.00	\$7,999,120.00
Total Sun	n 26	\$343,303,233.18	\$191,220,214.18	\$152,083,019.00

Exhibit K

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Page 1
1
2
            UNITED STATES BANKRUPTCY COURT
3
            SOUTHERN DISTRICT OF NEW YORK
4
    -----X
5
    In Re:
6
                               Chapter 11
7
    LEHMAN BROTHERS
                               Case No. 08-13555(JMP)
    HOLDINGS, INC., et al., (Jointly Administered)
                   Debtors.
10
    -----X
11
12
13
           DEPOSITION OF JOHN J. SCHNEIDER
14
                  New York, New York
15
                    April 12, 2010
16
17
18
19
20
21
22
23
    Reported by:
24
    KATHY S. KLEPFER, RMR, RPR, CRR, CLR
25
    JOB NO. 29650B
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	L Pg :	<u> 12 (</u>	of 136
	Page 2		Page 3
1		1	
2	April 12, 2010	2	
3	2:23 p.m.	3	APPEARANCES:
4	2.23 p.m.	4	ATTEARANCES.
5	Deposition of JOHN J. SCHNEIDER,	5	IONES DAY LLD
6	held at the law offices of Boies	6	JONES DAY, LLP
7			Attorneys for Lehman Brothers, Inc.
	Schiller & Flexner, LLP, 575 Lexington	7	222 East 41st Street
8	Avenue, New York, New York, before Kathy S.	8	New York, New York 10017-6702
9	Klepfer, a Registered Professional	9	BY: JAYANT W. TAMBE, ESQ.
10	Reporter, Registered Merit Reporter,	10	BART GREEN, ESQ.
11	Certified Realtime Reporter, Certified	11	
12	Livenote Reporter, and Notary Public	12	BOIES, SCHILLER & FLEXNER, LLP
13	of the State of New York.	13	Attorneys for Barclays
14		14	5301 Wisconsin Avenue, N.W.
15		15	Washington, D.C. 20015
16		16	BY: JONATHAN M. SHAW, ESQ.
17		17	
18		18	
19		19	
20		20	
21		21	
22		22	
23		23	
24		24	
25		25	
	Page 4		Page 5
1	J	1	J. Schneider
2	ADDEAD ANCES (Cont.)	1	J. Schneider JOHN J. SCHNEIDER, called as a
3	APPEARANCES: (Cont'd.)	3	*
	OHIM EMANUEL UDOLIHADT & CHILIWAN LID	1	witness, having been duly sworn by a Notary
4	QUINN, EMANUEL, URQUHART & SULLIVAN, LLP	4	Public, was examined and testified as
5	Attorneys for the Creditors Committee	5	follows:
6	51 Madison Avenue	6	EXAMINATION BY
7	22nd Floor	7	MR. SHAW:
8	New York, New York 10010	8	Q. Please state your name, sir.
9	BY: ROBERT K. DAKIS, ESQ.	9	A. John Schneider.
10		10	Q. Good afternoon, Mr. Schneider. I'm
11	HUGHES, HUBBARD & REED, LLP	11	Jonathan Shaw. We met off the record. I
12	Attorneys for the SIPA Trustee	12	represent Barclays Capital in this matter.
13	One Battery Park Plaza	13	Have you ever been deposed before,
14	New York, New York 10004-1482	14	sir?
15	BY: SAMUEL C. McCOUBREY, ESQ.	15	A. Just once.
16		16	Q. And when was that?
17		17	A. It was in December of 2007.
18	ALSO PRESENT:	18	Q. And that was in connection with what?
19	MARC VELLRATH, FSG	19	A. It was the Man Financial against
20		20	Philadelphia Asset Management.
21		21	Q. And that's the case which is reported
22		22	as expert witness experience
23		23	Deposition/Testimony Experience on your resumé?
24		24	A. That is correct.
25		25	Q. What did that case involve?
フト			v. vviiai uuu illäi vase liivuive!

Page 6 Page 7 1 J. Schneider 1 J. Schneider 2 Thank you. 2 A. It involved a fraudulent activity of 3 3 an asset manager and the impact on -- that the Q. What specific experience have you had reviewing repo transactions? 4 administrator, at least that was my position in 4 5 the matter, might have had in perpetrating 5 A. Specifically in many of the activities 6 6 that I've performed currently at Navigant, for fraud. 7 Q. And so the area of your --7 example, I would be involved in the investment of those -- in mutual funds' and hedge funds' 8 8 A. Expertise. 9 Q. -- expert testimony was what? 9 portfolio assets into a repo transaction. Along A. It was the responsibilities of an 10 10 with that at Navigant I would pass that through 11 11 to the service provider and review the valuation administrator. 12 activities provided by those service providers. 12 Q. When you say an administrator, you 13 mean? 13 MR. TAMBE: Are you asking current 14 14 experience or just all experience? A. In the context of a hedge fund, an 15 administrator typically does fund accounting and 15 MR. SHAW: All experience. 16 custody, amongst other activities, potentially. 16 Q. Anything else? 17 Q. As we go forward today, obviously I'm 17 A. Certainly. If you take that a step 18 going to ask you questions. To the extent that 18 further, while at Brown Brothers, we were a 19 19 any of my questions aren't clear to you, please service provider to both mutual funds and hedge 20 20 let me know that and I'll try and do a better funds, and the same would apply there, where the 21 21 job of formulating them. responsibilities in, particularly within the 22 Also, although I think this will be a 22 fund accounting teams would be to value relatively short deposition, if at any point you 23 portfolios, strike a net asset value. Amongst 23 24 want to take a break, just let me know and we'll 24 other things included in those activities would 25 25 be the marking of collateral, for example, take a break. Page 8 Page 9 1 1 J. Schneider J. Schneider 2 2 specifically to repo transactions and as well at still. 3 Brown Brothers they had a securities -- they 3 Q. Is it your understanding -- well, can were a securities lending agent, and the same you identify for me the repo custodian's, 4 4 types of responsibilities apply there. 5 custodial banks that do business in the United 5 6 And I could take it a step further to 6 States? 7 Citibank. Again, Citibank, as a service 7 A. There are several. 8 provider, they would provide the same types of 8 Q. Okay. 9 service for all types of asset classes, 9 A. Two of which I have opined on include 10 including securities loaning transactions and 10 Bank of New York and JPMorgan. 11 repo transactions. And that was the majority of 11 Q. Have you ever done any work for Bank 12 12 of New York in the repo area? my experience throughout my 23 years of 13 experience, ex prior to Citibank, which was 13 A. Bank of New York I did not do work in 14 scholastic, and Price Waterhouse. 14 the repo area. However, I have done some work 15 Q. Have you ever done any work for a repo 15 in Bank of New York around the securities 16 16 custodian? lending activities that they conduct. 17 17 Q. What have you done for Bank of New MR. TAMBE: Objection to the form of 18 18 the question. York on securities lending? 19 19 You can answer. A. We're currently engaged and just 20 20 broadly speaking we're looking at the investment MR. DAKIS: Same objection. 21 21 restrictions associated with securities lending A. Can you be more specific? 22 Q. Yes. Have you ever worked for any 22 activities. financial entity that served as a repo custodian 23 23 Q. Okay. And have you done any work for JPMorgan in the repo area? 24 either as an employee or as a consultant? 24 25 25 A. I'm not sure I'm clear on the question A. Yes, I would say yes, in that I was

Page 10 Page 11 1 1 J. Schneider J. Schneider 2 2 engaged by JPMorgan to do a review of their is a loan that's being extended against 3 3 mutual fund, and as such, within their mutual collateral. In both cases the collateral is 4 funds, they often invested in repo transactions. 4 being managed by a service provider, and 5 Those repo transactions were typically serviced 5 typically that's a custodial servicing agent. 6 through their affiliated service provider. 6 Q. What specific experience have you had 7 Q. Is a securitized lending transaction 7 reviewing processes in place to ensure that only 8 the same as an overnight repo transaction? 8 appropriate collateral is accepted on behalf of 9 MR. DAKIS: Objection to form. 9 tri-party repo custodians? 10 10 MR. DAKIS: Objection to form. MR. TAMBE: Objection to form. 11 A. Can you repeat the question? 11 A. Can you repeat the question? 12 Q. Sure. What specific experience have 12 Securitized lending? 13 Q. I'm sorry. Is a security lending 13 you had reviewing processes in place to ensure 14 transaction different from an overnight repo 14 that only appropriate collateral is accepted on 15 transaction? 15 behalf of tri-party repo custodians? 16 16 MR. DAKIS: Objection to the form. MR. DAKIS: Same objection. 17 17 MR. McCOUBREY: Objection to the form. A. I think the answer to the question is 18 18 what experience do I have in marking securities A. If the question is what are the 19 19 nuances of servicing a securities lending or managing collateral pools, and I have 20 20 transaction and how is that different than significant experiences. Firstly, at Navigant, 21 21 servicing a repo transaction, there are very where I just mentioned with Bank of New York. I 22 subtle differences. They are both designed to 22 have done that with Brown Brothers Harriman. 23 take collateral, and the offset to that 23 where I actually was responsible as the internal 24 24 audit head of their investor services business collateral is to take on cash in the case of 25 25 securities lending. In a repo transaction, it line in helping to implement the securities Page 12 Page 13 1 1 J. Schneider J. Schneider 2 2 lending business line as a whole. Part of that standpoint. 3 would be looking at the relationships that they 3 Q. Have you reviewed the valuation 4 formed to offer those services. 4 policies that Bank of New York uses in valuing 5 tri-party repo collateral? 5 MR. SHAW: Could you read my question 6 6 A. I did not. back? 7 7 (Record read.) Q. Have you reviewed the valuation 8 MR. TAMBE: Objection to form. 8 policies that JPMorgan uses in valuing tri-party 9 MR. DAKIS: Same objection. 9 repo collateral? A. So the specific question is? 10 10 A. I did not. 11 Q. Is what experience have you had 11 Q. Have you reviewed any testimony or 12 12 reviewing processes in place to ensure that only documents concerning how BoNY valued the 13 appropriate collateral is accepted on behalf of 13 collateral in the Fed replacement repo? 14 tri-party repo custodians? 14 A. I have reviewed some testimony as it 15 15 A. Okay. So if we can take tri-party relates to the fact that, for example, Bank of 16 16 repo and address that first. I have reviewed New York was the tri-party agent as it related 17 17 processes at custodians that had to do with repo to the Lehman/Barclays transaction, yes. 18 18 transactions, broadly speaking. The difference Q. Apart from reviewing testimony stating 19 19 between a tri-party repo and an RVP/DVP repo are that or that you interpret to mean that BoNY was 20 subtle differences, but both have a collateral 20 the tri-party agent in that repo transaction, 21 21 have you reviewed any testimony or documents management component to it, and then the 22 collateral management component to looking at a 22 concerning how BoNY valued the collateral in the 23 23 RVP/DVP repo transaction, I've had considerable fed replacement repo? 24 24 experience in looking at those processes, both A. Just testimony is what you're speaking at a policy, procedure, and internal controls 25 25

1 2			
	Page 14	:	Page 15
	J. Schneider	1	J. Schneider
	Q. Testimony concerning how BoNY went	2	Q. Do you know whether the Fed
3	about valuing the particular collateral?	3	replacement repo was in fact the tri-party repo?
4	A. The answer is that I've seen some	4	MR. TAMBE: Objection to the form of
5	evidentiary indication within the deposition	5	the question.
6	that there were processes that were followed,	6	MR. DAKIS: Same objection.
7	but they were not specific enough to determine	7	A. And can you repeat the question
8	exactly what were the processes that were in	8	differently?
9	place.	9	Q. Was the Fed replacement repo a
10	Q. Can you recall whose deposition	10	tri-party repo?
11	testimony you're thinking of?	11	MR. TAMBE: Object to the form of the
12	A. Well, the one that I cite within my	12	question.
13	report is Hraska, and that is really, again,	13	MR. DAKIS: Object to the form.
14	citing the fact that Bank of New York was in	14	MR. TAMBE: You can answer if you
15	fact the tri-party repo agent.	15	understand it.
16	Q. Have you reviewed any testimony or	16	
17	documents concerning how JPMorgan valued the	17	A. I'm not sure that I fully understand it.
18	9	18	
	collateral in the Fed replacement repo?		Q. You're aware that on September 18,
19	A. I believe you've already asked that.	19	2008 Barclays engaged in a repo in a
20	Q. I think I asked about BoNY.	20	repurchase transaction with Lehman Brothers,
21	A. I thought you asked both, JPMorgan and	21	Inc.; is that correct?
22	BoNY.	22	A. That is correct.
23	Q. Well, I was intending to get to both.	23	Q. And if I call that the Fed replacement
24	So is the answer the same to both?	24	repo, will you understand what I'm referring to?
25	A. Valuation, I have not.	25	A. I do.
	Page 16		Page 17
1	J. Schneider	1	J. Schneider
2	Q. And I call it that because this	2	was a tri-party repo?
3	replaced an existing repo agreement between the	3	A. That is correct.
4	Fed and LBI, do you understand that?	4	Q. What's your recollection of what in
	A. I do.	5	•
15			the Clarification Letter led you to that belief?
5	MR. DAKIS: Objection to form.		the Clarification Letter led you to that belief? A. I believe it actually stated that
6	MR. DAKIS: Objection to form. O. My question for you was, was the Fed	6	A. I believe it actually stated that
6 7	Q. My question for you was, was the Fed	6 7	A. I believe it actually stated that there was a tri-party repo transaction between
6 7 8	Q. My question for you was, was the Fed replacement repo a tri-party repo?	6 7 8	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays.
6 7 8 9	Q. My question for you was, was the Fed replacement repo a tri-party repo?A. The indications that I've read in	6 7 8 9	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion
6 7 8 9	Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter	6 7 8 9	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed
6 7 8 9 10	Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party	6 7 8 9 10	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party
6 7 8 9 10 11	Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction.	6 7 8 9 10 11	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction?
6 7 8 9 10 11 12	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in 	6 7 8 9 10 11 12	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of
6 7 8 9 10 11 12 13	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in deposition, you're referring specifically to Mr. 	6 7 8 9 10 11 12 13	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of the question.
6 7 8 9 10 11 12 13 14	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in deposition, you're referring specifically to Mr. Hraska's deposition? 	6 7 8 9 10 11 12 13 14	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same objection.
6 7 8 9 10 11 12 13 14 15	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in deposition, you're referring specifically to Mr. Hraska's deposition? A. That's correct. 	6 7 8 9 10 11 12 13 14 15	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same objection. MR. McCOUBREY: Objection.
6 7 8 9 10 11 12 13 14 15 16	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in deposition, you're referring specifically to Mr. Hraska's deposition? A. That's correct. Q. Any other depositions? 	6 7 8 9 10 11 12 13 14 15 16	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same objection. MR. McCOUBREY: Objection. A. So the question, if I understand it,
6 7 8 9 10 11 12 13 14 15 16 17	 Q. My question for you was, was the Fed replacement repo a tri-party repo? A. The indications that I've read in terms of deposition and the Clarification Letter would lead me to believe that it was a tri-party repo transaction. Q. And when you say the indications in deposition, you're referring specifically to Mr. Hraska's deposition? A. That's correct. Q. Any other depositions? A. None that are coming to mind, but I 	6 7 8 9 10 11 12 13 14 15 16 17	A. I believe it actually stated that there was a tri-party repo transaction between Lehman and Barclays. Q. Would it matter at all to any opinion you have expressed in this case if the Fed replacement repo transaction was not a tri-party repo transaction? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same objection. MR. McCOUBREY: Objection. A. So the question, if I understand it, is would it change my opinion? It would not
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I	Page 18		Page 19
1	J. Schneider	1	J. Schneider
2	Q. Sir, showing you what has been marked	2	statement lends
3	as Exhibit 703, do you recognize that as a copy	3	Q. Credibility
4	of your report in this matter?	4	A credibility?
5	A. I do.	5	Q to the marks that they affix to
6	Q. And showing you what has been marked	6	repo collateral?
7	as Exhibit 704, do you recognize that as a copy	7	A. I do.
8	of the errata to your report?	8	Q. And that's because in your view they
9	A. I do recognize it as such.	9	would be exposed to business risk if they failed
10	Q. How many hours have you billed to this	10	to accurately mark repo collateral?
11	matter, sir?	11	A. Precisely.
12	A. I couldn't tell you exactly, but I	12	Q. And you understand that, as a
13	would estimate 80 hours.	13	broker-dealer, Barclays is likewise required to
14	Q. Take a look, if you would, at	14	mark its trading assets on a regular basis?
15	paragraph 9 of your report. You see in	15	MR. TAMBE: Objection to the form of
16	paragraph 9 that you say, "If BoNY and JPM were	16	the question.
17	unable to accurately mark hard to value, complex	17	MR. DAKIS: Same objection.
18	securities, they would be exposed to undue	18	A. As a broker-dealer, Barclays has a
19	business risk"?	19	responsibility to value its assets. I'm not
20	A. I do see that.	20	absolutely certain as to what their
21	Q. And do you believe that that	21	responsibilities are as it relates to the
22	observation lends credibility to the BoNY and	22	collateral.
23	JPMorgan marks of repo collateral?	23	Q. Well, would it be fair to say that if
24	MR. DAKIS: Objection to form.	24	Barclays were unable to accurately mark hard to
25	A. The question is do I believe that this	25	value, complex securities, that would expose
	Page 20		Page 21
1 2	J. Schneider	1	J. Schneider
2	J. Schneider Barclays to undue business risk?	1 2	J. Schneider that Barclays does not have a solid capability
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	Page 22		Page 23
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6	not do any work evaluating Barclays' valuation	6	category at Bank of New York are responsible
7	activities.	7	for doing that?
8	Q. Just so I'm clear, I take it you also	8	A. It would typically be the Collateral
9	did not in any way attempt to validate the marks	9	Management Team.
10	that BoNY placed on any of the securities that	10	Q. Do you know if any of the people on
11	were in the Fed replacement repo?	11	the Collateral Management Team are active
12	MR. DAKIS: Objection to the form.	12	traders of assets?
13	A. When you say "validate," in what	13	A. I would have no understanding of that.
14	capacity?	14	Q. Do you have any idea whether they
15	Q. You didn't check in any way to see	15	regularly communicate with the bank's traders in
16	whether those were in fact correct?	16	any of the assets they're valuing?
17	A. I did not value the marks.	17	MR. TAMBE: Object to form.
18	Q. And the same holds true for JPMorgan,	18	MR. DAKIS: Same objection.
19	I take it?	19	A. If the question is do I know whether
20	A. That is true.	20	they communicate with the trading desks at JPM?
21	Q. At Bank of New York who establishes	21	Q. Or BoNY, as the case may be.
22	the marks that Bank of New York uses in its role	22	A. Or BoNY. No, I don't know what type
23	as custodial agent?	23	of communication between the two units.
24	A. In the case of Bank of New York, Bank	24	Q. When you say that in a repo situation
25	of New York would determine what the mark is.	25	BoNY sets the marks or sets the value, for what
	Page 24		
	1496 21		Page 25
1		1	
1 2	J. Schneider	1 2	J. Schneider
1 2 3	J. Schneider purposes does BoNY set the value?	2	J. Schneider the transaction?
2	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to		J. Schneider the transaction? Q. Yes.
2 3 4	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based	2 3 4	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other
2 3 4 5	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been	2 3 4 5	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that
2 3 4 5 6	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have	2 3 4 5 6	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and
2 3 4 5	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the	2 3 4 5 6 7	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to.
2 3 4 5 6 7	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar	2 3 4 5 6 7 8	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the
2 3 4 5 6 7 8	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending.	2 3 4 5 6 7	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the
2 3 4 5 6 7 8 9	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar	2 3 4 5 6 7 8 9	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral
2 3 4 5 6 7 8 9	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose?	2 3 4 5 6 7 8 9	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided?
2 3 4 5 6 7 8 9 10	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's	2 3 4 5 6 7 8 9 10	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided?
2 3 4 5 6 7 8 9 10 11	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint,	2 3 4 5 6 7 8 9 10 11	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo.
2 3 4 5 6 7 8 9 10 11 12 13	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself	2 3 4 5 6 7 8 9 10 11 12	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for	2 3 4 5 6 7 8 9 10 11 12 13	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that	2 3 4 5 6 7 8 9 10 11 12 13 14	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient collateral has been provided? MR. TAMBE: Objection to the form of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not. Q. Turn to paragraph 38 of your report,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient collateral has been provided? MR. TAMBE: Objection to the form of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not. Q. Turn to paragraph 38 of your report, if you would, please. It's on page 16.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient collateral has been provided? MR. TAMBE: Objection to the form of the question.	2 3 4 5 6 7 8 9 10 11 11 11 11 11 11 11 11 11	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not. Q. Turn to paragraph 38 of your report, if you would, please. It's on page 16. A. I am getting there. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient collateral has been provided? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same. A. If I understand the question, are you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not. Q. Turn to paragraph 38 of your report, if you would, please. It's on page 16. A. I am getting there. Okay. Q. Let's take a look at the third bullet
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	J. Schneider purposes does BoNY set the value? A. It's setting the value of the marks to determine if it has sufficient collateral based on the contractual guidelines that have been established to have that transaction have enough collateral on hand to allow one of the counterparties, the lender, to lend the dollar amount that it's lending. Q. For any other purpose? A. Well, it also has to do with from it's own from a service provider standpoint, there's certainly some risk that presents itself to that organization, so it's compelling for them to get the value to be correct. Q. Are you expressing any opinion that Barclays was required to accept BoNY marks for any purpose other than determining if sufficient collateral has been provided? MR. TAMBE: Objection to the form of the question. MR. DAKIS: Same. A. If I understand the question, are you asking if Barclays had a responsibility to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	J. Schneider the transaction? Q. Yes. A. And that is correct, there is no other reason for Barclays, necessarily, to accept that for any other purpose than the transaction, and that's what my opinion is specific to. Q. And specifically when you say "for the transaction," you're referring to the determination of whether sufficient collateral has been provided? A. As it relates to the tri-party repo. Q. Yes. A. Yes. Q. Have you read the report prepared by the gentleman who was here a little earlier today, Mr. Schwaba? A. I did not. Q. Turn to paragraph 38 of your report, if you would, please. It's on page 16. A. I am getting there. Okay. Q. Let's take a look at the third bullet point in there. Is it your view that today

	Page 26		Page 27
1	J. Schneider	1	J. Schneider
2	MR. TAMBE: Objection to form.	2	Q. I'm just trying to find out what your
3	MR. DAKIS: Same objection.	3	opinion whatever opinion you're expressing on
4	A. If the question is do I believe that	4	that issue.
5	every CMO qualifies?	5	A. I do go back to what I said
6	Q. Yes.	6	previously, and that is that, generally
7	A. That's not what this paragraph is	7	speaking, CMOs are an acceptable form of
8	saying.	8	collateral. Now, I believe, maybe let me take
9	Q. All right. Are there types of CMOs	9	that a step further, and that is that typically
10		10	within the tri-party agreement there are
11	securities for private tri-party repos?	11	specifications to allowable collateral, and that
12		12	is typically determined by the lender as to
13	ξ ,	13	what's acceptable. So in this particular
14	states that certain CMOs are acceptable and	14	transaction you'd have to look to the contract
15	certain are not? What this is intended to say,	15	to define that.
16	or I intended it to say, is that there are	16	Q. So if I understand you correctly, you
17	certain types of securities that are generally	17	are not opining that there's a blanket rule that
18	• • • • • • • • • • • • • • • • • • • •	18	all CMOs are eligible securities in a repo?
19	1 ,	19	A. I am not giving that opinion.
20		20	Q. And the same would be true with
21	eligible collateral or only a subset of CMOs	21	respect to CDOs; is that correct?
22	eligible collateral?	22	A. That would be correct.
23	MR. TAMBE: Object to the form.	23	Q. And CBOs?
24	MR. DAKIS: Same objection.	24	A. Any of the asset classes. We could
25	· · · · · · · · · · · · · · · · · · ·	25	run down the list and that would generally be
	Page 28		Page 29
1	J. Schneider	1	J. Schneider
2	true, although I would be hard pressed to think	2	that you read somewhere?
3	that you would find a Treasury that is not	3	A. What I'm reporting is that, from
4	acceptable.	4	experience, there are certain asset classes and
5	Q. Unfortunately, that may be changing	5	certain assets within classes that are
6	these days.	6	considered less liquid, and they in fact have
7	A. I understand. New rules are coming.	7	been deemed acceptable forms of collateral for
8	Q. Looking at paragraph 41, sir, of your	8	purposes of tri-party repo transactions.
9	report, do you see that you present what I	9	Q. So in paragraph 41 when you discuss
10	understand to be a definition of "less liquid"	10	the percentage of non-traditional collateral
11		11	used in dealer repos, you're referring to the
12	statistics that you report from the Fed?	12	percentage of collateral that falls into the
13	A. That is correct.	13	categories of corporate securities,
14	Q. And would I be correct in	14	mortgage-backed securities, and asset-backed
15	understanding you to be defining 'less liquid	15	securities; is that correct?
16	· · · · · · · · · · · · · · · · · · ·	16	A. That is correct.
17	7	17	Q. Now, would it be fair to say that
18		18	corporate securities is a fairly broad asset
19	3	19	class?
20	1	20	A. And that's precisely why I said in
21	MR. DAKIS: Same objection.	21	some cases it's, within that asset class, you're
22	Q. For that purpose.	22	going to find some that are less liquid.
23	1 71	23	Q. And some in fact are extremely
24	A	24	illiquid, esoteric, and hard to value, would
25	Q. So you're just reporting something	25	that be fair?
			8 (Pages 26 to 29)

Page 30 Page 31 1 1 J. Schneider J. Schneider 2 MR. DAKIS: Objection to form. 2 you refer to is actually illiquid and esoteric 3 A. It's possible that there are 3 as opposed to more liquid and straightforward corporates that are -- I'm not sure extremely, 4 4 securities of those -- in those classes? 5 but ... 5 MR. DAKIS: Objection to the form of 6 Q. And then do you know in the statistics 6 the question. 7 that you cite in paragraph 41 how many -- what 7 MR. TAMBE: Objection. percentage of the corporates that are going to 8 A. If I understand correctly, I think 9 make up the figures you cite are of the 9 what this is saying is of all the collateral 10 illiquid, esoteric variety as opposed to the 10 that's accepted within the industry relative to 11 liquid and easy to value variety of corporates? 11 tri-party repos, that the percentage that's been 12 MR. TAMBE: Objection to form. 12 accepted uniformly has gone up both times. 13 13 Q. And you're not able to tell me of that MR. DAKIS: Same objection. 14 A. If I understand your question, if I 14 percentage how much of it is illiquid, esoteric 15 took the total population of corporates and 15 securities of those types? 16 dissected it and came up with a stratification 16 MR. TAMBE: Objection to form. 17 as to what's considered, I did not go through 17 MR. DAKIS: Same objection. 18 that analysis. 18 MR. McCOUBREY: Objection to form. 19 19 A. I think it is saying that. I believe Q. And the same, I take it, would be true 20 with respect to asset-backed and mortgage-backed 20 the paragraph, as it's written, and we can go 21 21 securities? through it, is saying that if all the collateral 22 22 that's being accepted, corporates, mortgage A. That is correct. 23 23 Q. So you're not able to tell me, of the backs and asset backed securities, in their 24 percentages that you give here in paragraph 41, illiquid form, are being accepted as collateral. 24 25 how much of that non-traditional collateral that 25 Q. So you're saying that the figures that Page 33 Page 32 1 J. Schneider 1 J. Schneider 2 2 are given here, when you say, for example, "By the Fed replacement repo, was there any 3 January 2006, that proportion reached around 48 collateral that BoNY had no experience 3 percent," that 48 percent is composed entirely 4 4 whatsoever in valuing? 5 5 of illiquid securities? A. I have no basis to answer that. A. What I'm saying is that's what the Fed 6 6 Q. You don't know one way or the other? 7 is stating in 2005, yes. 7 A. I don't. 8 Q. And that's how you're reading what the 8 Q. In the course of your work on this 9 Fed is stating? 9 matter, have you in any way examined the 10 A. That's what I'm -- that's how I'm 10 specific collateral that was used in the Fed 11 reading it. 11 replacement repo? 12 12 A. Be more specific. I've seen a list of Q. And I just want to make clear, because 13 I thought you were saying something different a 13 assets, but I did not analyze it in any way. 14 moment ago, that 48 percent, are you saying that 14 Q. Did you do anything besides seeing 15 15 consists of all corporates, asset backs and that there was a list of assets? 16 mortgage backs or a subset of illiquid 16 A. That's correct. 17 17 corporates, asset backs or mortgage backs? Q. I think I may have phrased my question 18 A. The way I understood the prior 18 incorrectly, but let me make sure that I 19 question was that you were speaking to an asset 19 understand your answer. 20 class, corporate securities, and if I took that 20 A. Maybe we can read it back. 21 population, and let's say that was a million 21 Q. When you say that's correct, you mean 22 dollars, and in corporate securities there were 22 you did not do anything besides seeing that 23 60 percent that were liquid and 40 percent that 23 there was a list of assets? were illiquid, I don't know that answer. 24 24 A. I did not do anything other than see a 25 25 Q. In terms of the collateral that was in list of assets.

	Page 34		Page 35
1	J. Schneider	1	J. Schneider
2	Q. Turn to paragraph 10 of your report,	2	all the collateral transferred to Barclays in
3	sir. The first sentence you write the words,	3	the Fed replacement repo transaction would have
4	"The requirements imposed on tri-party repo	4	been eligible for use as collateral in a Fed
5	agents by the Federal Reserve Bank of New York,"	5	repo transaction?
6	do you see that?	6	A. The answer is I would not know if all
7	A. Yes.	7	the collateral that was transferred qualified.
8	Q. What requirements specifically are you	8	Q. Are you expressing any opinion about
9	referring to?	9	what constitutes a generally recognized source
10	A. Well, the Fed throughout my report has	10	for valuation of securities?
11	given guidance as to what are the	11	A. When you say source, just so that I'm
12	responsibilities of the tri-party repo agent,	12	clear, a service that is utilized by a tri-party
13	and those responsibilities include, amongst	13	agent to price the security; is that what you're
14	others, is the onboarding of the collateral, the	14	asking?
15	valuation or marking of the collateral, and the	15	Q. That could be one. Let me rephrase
16	qualification of those assets that are brought	16	the question. I think I can make it a little
17	on as collateral.	17	clearer.
18	Q. So when you talk about requirements, I	18	Are you offering any opinion as to
19	take it what you are talking about is simply the	19	what constitutes a generally recognized source
20	identification of functions that are to be	20	of prices for repo collateral?
21	performed by the custodian; is that what you're	21	MR. TAMBE: Objection to the form of
22	talking about?	22	the question.
23	A. That is correct.	23	MR. DAKIS: Same objection.
24	Q. Given your prior answers, I take it	24	A. And maybe if I could just offer a
25	that it's fair to say that you do not know if	25	different way to potentially ask it and answer,
	Page 36		Page 37
1	J. Schneider	1	J. Schneider
2	J. Schneider and that is that what I am offering is that	1 2	J. Schneider A. I do see that.
2	J. Schneider and that is that what I am offering is that there's a general process that a tri-party	1	J. Schneider A. I do see that. Q. And if you look at number 2 in the
2 3 4	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types	2 3 4	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence
2 3 4 5	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security.	2 3 4 5	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or
2 3 4 5 6	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but	2 3 4 5 6	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"?
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2 3 4 5 6 7 8 9	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that.	2 3 4 5 6 7 8 9	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay.
2 3 4 5 6 7 8 9 10	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been	2 3 4 5 6 7 8 9 10	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals
2 3 4 5 6 7 8 9 10 11	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case.	2 3 4 5 6 7 8 9 10 11	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3?
2 3 4 5 6 7 8 9 10 11 12	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay.	2 3 4 5 6 7 8 9 10 11 12	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master	2 3 4 5 6 7 8 9 10 11 12 13	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In
2 3 4 5 6 7 8 9 10 11 12 13 14 15	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement? A. Yes, I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for prices or bid or offer quotations for any
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement? A. Yes, I do. Q. In the 1996 version, published by the Bond Market Trade Association? A. (Witness nods.) Q. You need to answer orally. A. Oh, yes.	2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 17 18 19 20 21	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for prices or bid or offer quotations for any security," do you see that? A. I do. Q. Okay. And so my question is, are you offering any opinion as to what constitutes a generally recognized source for prices or bid or
2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 22 22 22 22 22 22 22	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement? A. Yes, I do. Q. In the 1996 version, published by the Bond Market Trade Association? A. (Witness nods.) Q. You need to answer orally. A. Oh, yes. Q. And if you turn to page 7, paragraph	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for prices or bid or offer quotations for any security," do you see that? A. I do. Q. Okay. And so my question is, are you offering any opinion as to what constitutes a generally recognized source for prices or bid or offer quotations for any security?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement? A. Yes, I do. Q. In the 1996 version, published by the Bond Market Trade Association? A. (Witness nods.) Q. You need to answer orally. A. Oh, yes. Q. And if you turn to page 7, paragraph 11(d), and you'll see that there is an intro, a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for prices or bid or offer quotations for any security," do you see that? A. I do. Q. Okay. And so my question is, are you offering any opinion as to what constitutes a generally recognized source for prices or bid or offer quotations for any security? MR. TAMBE: Objection to the form of
2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 22 22 22 22 22 22 22	J. Schneider and that is that what I am offering is that there's a general process that a tri-party collateral agent follows in terms of the types of tools that it will use to price a security. Q. I think we're missing each other, but I think I have a way to get us to where I'm going. A. Okay. Q. So let me do that. Showing you what's previously been marked as Exhibit 117 in this case. A. Okay. Q. Do you recognize this as a Master Repurchase Agreement? A. Yes, I do. Q. In the 1996 version, published by the Bond Market Trade Association? A. (Witness nods.) Q. You need to answer orally. A. Oh, yes. Q. And if you turn to page 7, paragraph	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	J. Schneider A. I do see that. Q. And if you look at number 2 in the continuation paragraph, it says, "In the absence of a generally recognized source for prices or bid or offer quotations for any security"? A. You did say paragraph 2, (D)(ii)? Q. Not the little (ii), the continuation paragraph. A. Okay. Q. Yes. You see it's got Arabic numerals 1 and 2 and 3? A. Yes. Q. Okay. And Arabic numeral 2 reads, "In the absence of a generally recognized source for prices or bid or offer quotations for any security," do you see that? A. I do. Q. Okay. And so my question is, are you offering any opinion as to what constitutes a generally recognized source for prices or bid or offer quotations for any security?

Page 38 Page 39 1 J. Schneider 1 J. Schneider 2 2 MR. McCOUBREY: Same objection. transaction? 3 3 A. If you're asking the question that MR. TAMBE: Same objection to the 4 does a tri-party repo agent use pricing sources 4 5 to accomplish what is referred to here, they do 5 MR. DAKIS: Same objection. 6 in fact; and if I think the follow on was am I 6 A. I remain unclear as to the question 7 offering that one source is better than another 7 being asked. 8 8 in my report. I am not. Q. Okay. Let me keep trying then. Are 9 Q. Neither of those are quite the 9 you, for example, opining that the collateral 10 question I was asking. 10 marks affixed by a tri-party repo agent, for example, constitute a generally recognized A. Okay. I'll get there. 11 11 Q. Let me see if I can get there. 12 12 source for prices or bid or offer quotations for 13 Are you offering any opinion about 13 any security? what constitutes a generally recognized source A. Can I have you read that back, please? 14 14 15 for prices or bid or offer quotations for any 15 (Record read.) 16 security? 16 A. So if I understand the way it was read 17 17 MR. TAMBE: Object to the form. back, it's that when a tri-party agent provides 18 A. So if the question is does the pricing 18 pricing that is based on an acceptable source, 19 19 source have a bid and ask price? is that something I'm opining on? 20 Q. No, that's not quite what I'm doing, 20 Q. No. Not the question. 21 but I think we're getting closer. 21 A. Okay. 22 22 Let me break it into pieces. You Q. My question is, are you offering an opinion about what constitutes a generally 23 23 stated that for purposes of assessing whether 24 recognized source for prices or bid or offer 24 sufficient collateral has been provided a 25 tri-party agent will affix marks to securities; 25 quotations for any security used in a repo Page 40 Page 41 1 J. Schneider J. Schneider 1 is that correct? Marks to the collateral? 2 2 purposes for which parties to a repo are 3 3 required to accept the marks of the repo A. That is correct. custodian; do you recall we discussed that 4 4 Q. Okay. And my question is, are you offering any opinion that a tri-party agent's earlier today? 5 5 6 marks constitute a generally recognized source 6 A. We did, yes. 7 of -- source for prices or bid or offer 7 Q. And if I recall your testimony correctly, you agreed that the only purposes for 8 quotations for any such security? 8 MR. TAMBE: Objection to the form of 9 9 which the parties to a repo transaction were 10 10 required to accept the custodian's marks were the question. 11 11 MR. DAKIS: Same objection. for the purposes of assessing whether sufficient MR. McCOUBREY: Same objection. 12 collateral had been provided; is that correct? 12 MR. TAMBE: Objection to form. 13 A. And if I understand the agreement here 13 14 and what you're reading from, that's not the 14 MR. DAKIS: Objection to form. 15 Misstates prior testimony. 15 intention. MR. McCOUBREY: Same objection. 16 16 Okay. You can put that aside. 17 A. Can you repeat that? MR. SHAW: Why don't we take a short 17 MR. SHAW: Can you read it back? 18 18 break. 19 19 (Recess; Time Noted: 3:11 P.M.) (Record read.) 20 20 (Time Noted: 3:24 P.M.) MR. TAMBE: Same objection. 21 21 A. Can you give me more clarity on that BY MR. SHAW: 22 22 question, please? Q. Mr. Schneider, I think I already know 23 the answer to this based on your prior answer, 23 Q. Okay. Well, you've expressed the but I just want to make sure I have it cleanly. opinion, I believe, that the parties to a repo 24 24 25 25 You'll recall we discussed the transaction agree to accept the custodian's

Page 42 Page 43 1 1 J. Schneider J. Schneider 2 marks; is that correct? 2 for purposes of valuing assets on their own 3 3 books and records, are you? A. That is correct. 4 Q. And I believe earlier I asked you for 4 A. I don't believe there's a requirement. 5 5 Q. If you would take a look at paragraph what purposes do they agree to accept the 6 custodian's marks, and so let me ask that again. 14 of your report, sir, and in that you have a 6 7 For what purposes do the parties to a 7 long quote from Professor Pfleiderer's report; 8 8 repo transaction agree to accept the custodian's is that correct? 9 9 A. I do. marks? 10 10 MR. DAKIS: Objection to the form. Q. Okay. The first sentence reads, 11 11 A. For the transaction itself they're "There is every reason to believe that JPMorgan 12 12 accepting the mark to determine that there's Chase and BoNY, in their roles as custodians, 13 13 sufficient collateral. had no better insight and were no better 14 Q. And not for any other purposes? <u>l</u> 4 informed than (and more likely were not as well 15 MR. TAMBE: Objection to the form of 15 informed as) Mr. King," and then you have a 16 16 footnote that I assume was also copied from the question. 17 17 MR. DAKIS: Same objection. Professor Pfleiderer's report identifying who 18 18 Mr. King is, "and his team," do you see that? A. Not as it relates to the transaction. 19 19 Q. For any purposes not relating to the A. I do. 20 transaction that you can think of? 20 Q. Do you disagree with anything in that 21 21 A. I'm not aware of how else they use the sentence? 22 22 A. I disagree. I mean, it was his marks. 23 23 Q. You're not testifying, for example, statement, and I don't agree that -- I don't 24 that there's any requirement that the parties to 24 know where the validity of whether or not who is 25 25 a repo use custodian's marks for their own -more informed, I don't know. Page 44 Page 45 1 1 J. Schneider J. Schneider 2 Q. So, one way or the other, you have no 2 A. I did not opine on that. 3 personal opinion on that? 3 O. In the next sentence you quote, "Thus, MR. TAMBE: Objection to the form of 4 4 it is virtually certain that both JPMorgan Chase 5 the question. 5 and Bank of New York encountered significant 6 MR. DAKIS: Same objection. 6 problems in characterizing, understanding, and 7 A. Yes, my opinion, as you read below, is 7 marking at least some of the securities that 8 what Professor Pfleiderer did or didn't do. 8 comprise the repo collateral." Do you see that? 9 Q. Okay. But you have no basis for 9 A. I do. offering an opinion on whether the Barclays team 10 10 Q. Do you have any reason to dispute that 11 or the BoNY or JPMorgan teams were better 11 sentence? 12 12 qualified to assess the value of the particular A. Dispute it in what context? 13 collateral you used in the federal repo? 13 Q. To suggest that that statement made by 14 A. On half of the question I have an 14 **Professor Pfleiderer there is incorrect?** 15 opinion, which is that JPMorgan or Bank of New 15 A. Yes. Actually, when I read that, I'm 16 York in this matter have a responsibility and 16 not sure how he makes that conclusion based on 17 have sufficient knowledge to be able to price 17 the prior sentence. He's saying because one 18 18 team is better informed than another, that -- I the collateral. 19 19 Q. Okay. But you have no basis for think he concludes one is better than the other, 20 20 offering any opinion on whether the Barclays but I'm not certain, and then he says, "Thus, it 21 team or the BoNY or JPMorgan teams were better 21 is virtually certain that both JPMorgan and Bank 22 qualified to assess the value of the particular 22 of New York encountered significant problems." 23 23 collateral used in the Fed replacement repo? I don't see anything that tells me he 24 MR. TAMBE: Objection to form. 24 had problems or that he was aware of problems 25 MR. DAKIS: Objection to form. 25 that JPMorgan or Bank of New York had

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1	J. Schneider	1	J. Schneider
2	encountered.	2	Q. What is your basis for contesting that
3	Q. I take it you have not read any of Mr.	3	conclusion?
4	King's testimony?	4	A. The nature of a tri-party repo is that
5	A. I have not read King's testimony, no.	5	it unwinds daily, so any tri-party repo, you
6	Q. And you know nothing about what sort	6	only have one day to value the collateral.
7	of collateral was actually in the Fed	7	Q. Do you know how long Barclays had to
8	replacement repo; is that correct?	8	value the collateral when it affixed values to
9	A. Other than your question previously	9	the collateral for purposes of its acquisition
10	* * *	10	accounting?
11		11	A. I do not.
12	_	12	Q. And I take it you're not testifying
13		13	that none of the BoNY marks could be imprecise?
14	y ,	14	A. I am not opining on that.
15		15	Q. Look at paragraph 11 of your report.
16		16	You write, "Therefore, BoNY and JPM collateral
17		17	marks should not be summarily dismissed as
18		18	unreliable." Do you see that?
19	· · · · · · · · · · · · · · · · · · ·	19	A. I do.
20	· · · · · · · · · · · · · · · · · · ·	20	Q. Is it your opinion, are you offering
21	~ · ·	21	the opinion that Professor Pfleiderer summarily
22		22	dismissed the BoNY and JPM marks as unreliable?
23	J	23	A. My opinion is Professor Pfleiderer had
24	•	24	language to suggest that the marking process
25		25	undertaken by JPMorgan and BoNY was not to be
	Page 48		Page 49
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1	J. Schneider	1	J. Schneider
2	relied upon, in summary.	2	conditions, for normal commercial tri-party
3	Q. Is it your understanding that that was	3	repos," do you see that?
4	his opinion with respect to each and every	4	A. I do.
5	security that they marked or to a subset of	5	Q. Does that give you any information as
6	those securities?	6	to whether Professor Pfleiderer was contesting
7	A. The testimony that I read did not get	7	their marks wholesale or simply a subset?
8	specific or granular enough to get into which he	8	A. I believe, if I understand the
9	was speaking to.	9	question can I have you repeat it one more
10		10	time?
11	3	11	Q. Sure. As you read that statement by
12		12	Professor Pfleiderer, do you understand him to
13		13	be saying that for the type of collateral that
14 15		14	is normally eligible, BoNY or JPMorgan was
15 16	1 /	15	perfectly well able to mark that collateral?
16 17		16	A. The way I read it is he states that
17		17	there are policies and procedures that are
18	· ·	18	maintained to allow them to price securities.
19 50		19	Q. I take it that you do not yourself
20		20	have any opinion as to which entity was better
21		21	qualified to provide accurate marks for the
22	, , , , , , , , , , , , , , , , , , ,	22	collateral in the Fed replacement repo, BoNY on
23		23	the one hand or Barclays on the other?
n 4	googramstagg trymagolly, oligible og gollotogglin	17/1	A I do not provide that opinion in my
24 25		24 25	A. I do not provide that opinion in my report.

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	Page 50		Page 51				
1	J. Schneider	1	J. Schneider				
2		2	Q. And I take it you have no				
	Q. And I take it you're not providing any	3	understanding of what you have made no				
3	opinion that Barclays was unqualified to provide	4					
4	accurate marks for the securities it received in	5	investigation of what Barclays' capabilities are				
5	this transaction?	6	for accurately evaluating securities?				
6	A. I did not opine on Barclays'	7	A. I did not perform any level of				
7	capabilities.	8	investigation as to what Barclays' capabilities				
8	(Continued on the next page to include	9	are. MR. SHAW: I think we're done. Thank				
9	the jurat.)	10	you very much.				
10	the jurut.)		you very much. THE WITNESS: Thank you.				
11		12	MR. TAMBE: Thank you.				
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16		Γ΄	JOHN J. SCHNEIDER				
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19		1	before me this day				
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2	NAME OF CASE: In re: Lehman Brothers	
3	DATE OF DEPOSITION: April 12, 2010	
4	NAME OF WITNESS: John J. Schneider	
5	Reason Codes:	
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	2. To conform to the facts.	
7	3. To correct transcription errors.	
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Exhibit L

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UNITED STATES BANKRUPTCY COURT SOUTHERN DISTRICT OF NEW YORK

	X	
	_ :	Chapter 11
In re:	•	
	:	Case No. 08-13555 (JMP)
LEHMAN BROTHERS HOLDINGS INC., et al.,	:	
	:	(Jointly Administered)
Debtors,	:	
	\mathbf{X}	

JOHN J. SCHNEIDER EXPERT REPORT

March 15, 2010

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I. Introduction

1. This report is submitted by John Schneider, a Managing Director at Navigant Consulting Inc. I discuss my qualifications in more detail in section II and present my curriculum vitae in Appendix I.

- 2. I have prepared this report at the request of Counsel for Movants to set forth the subject matters on which I expect to testify, the substance of the facts and opinions on which I expect to testify, and a summary of the foundations for each opinion.¹
- 3. Navigant Consulting Inc. charges an hourly rate of \$580 for my time. Other Navigant Consulting Inc. professionals working under my direction and supervision assisted in my analysis and were or will be compensated for their work at their customary hourly rates. This compensation is not contingent upon the substance of my testimony or the outcome of this matter.
- 4. The remainder of this report is organized as follows. I summarize my opinions in Section III and in section IV, I provide basis for my opinions.

II. SUMMARY OF QUALIFICATIONS

¹ This report concerns three motions before the court: 1) Motion of Official Committee of Unsecured Creditors of Lehman Brothers Holdings Inc., <u>et al.</u>, Pursuant to 11 U.S.C. § 105(a), Fed. R. Civ. P. 60(b), and Fed. R. Bankr. P. 9024, for Relief from Order Under 11 U.S.C. §§ 105(a), 363, and 365 and Federal Rules of Bankruptcy Procedure 2002, 6004 and 6006 Authorizing and Approving (A) Sale of Purchased Assets Free and Clear of Liens and Other Interests and (B) Assumption and Assignment of Executory Contracts and Unexpired Leases, Dated September 20, 2008 (and Related SIPA Sale Order) and Joinder in Debtors' and SIPA Trustee's Motions for an Order Under Rule 60(b) to Modify Sale Order, September 15, 2009.

²⁾ The Trustee's Motion for Relief Pursuant to the Sale Orders or, Alternatively, for Certain Limited Relief Under Rule 60(b), September 15, 2009.

³⁾ Debtor's Motion for an Order, Pursuant to Fed. R. Civ. P. 60 and Fed. R. Bankr. P. 9024, Modifying the September 20, 2008 Sale Order and Granting Other Relief, September 15, 2009.

5. My Present position is Managing Director at Navigant Consulting Inc. I earned my B.S. in accounting from the University of Scranton and an Executive MBA degree from Boston University. I am a Certified Public Accountant licensed in the State of Pennsylvania.

- 6. For over 23 years, I have worked with financial services companies designing and evaluating governance and control environments. I have been invited to speak at numerous industry events and I have published articles on developing compliance programs and various regulatory matters.
- 7. My experience at Navigant Consulting Inc., Brown Brothers Harriman & Co. and Citibank focused on the custodial activities performed and the control environments designed to mitigate the inherent business risks. Specifically, my work was performed in both an audit and compliance capacity, which provided me an opportunity to develop risk, governance, control and regulatory expertise. I have had specific experience in reviewing securities lending and repo transactions and the related policies, processes and controls designed and implemented to mitigate the inherent risks associated with the contractual commitment to provide custodial and valuation services, including the documentation of eligible securities, the processes in place to ensure that only appropriate collateral is accepted on behalf of lenders and the adequacy of valuation processes and a firm's ability to mark collateral in accordance with contractual obligations and internal policies. My experience is described in more detail in my curriculum vitae, which is attached as Appendix 1.

III. SUMMARY OF OPINIONS

8. Based on the information available to me, the following is a summary of my opinions with regards to the elements of this matter I was engaged to review. My work on this matter

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continues and I reserve the right revise the opinions set forth in this report based on additional relevant information that is made available.

- 9. Bank of New York/Mellon ("BoNY") and JP Morgan Chase Bank, N.A. ("JPM"), control the vast majority of the tri-party repurchase custodial business in the U.S., and have developed the capacity to value all types of collateral received under tri-party arrangements on behalf of the parties to those arrangements.² If BoNY and JPM were unable to accurately mark hard to value complex securities, they would be exposed to undue business risk and would not be recognized as industry leading tri-party repo agents.
- 10. Additionally, pursuant to their contractual obligations and the requirements imposed on tri-party repo agents by the Federal Reserve Bank of New York ("NY Fed"), BoNY and JPM had a duty to mark the collateral securing the repo Barclays plc (Barclays) assumed from the NY Fed. Furthermore, the parties to the Tri-Party Agreements clearly agreed to: (1) have BoNY and JPM act as custodians and Tri-Party Agents; and (2) accept BoNY's and JPM's collateral valuations under each Tri-Party Agreement.
- 11. BoNY and JPM were capable of and in fact had a duty to determine collateral values. Therefore, BoNY and JPM collateral 'marks' should not be summarily dismissed as unreliable.

² Federal Reserve Bank of New York, Repurchase and Reverse Repurchase Transactions [hereinafter *Repurchase and Reverse Repurchase Transactions*], *available at* http://www.newyorkfed.org/aboutthefed/fedpoint/fed04.html (last visited Mar. 15, 2010) ("In a tri-party repo, both parties to the repo must have cash and collateral accounts at the same tri-party agent, which is by definition also a clearing bank. The tri-party agent will ensure that collateral pledged is sufficient and meets eligibility requirements, and all parties agree to use collateral prices supplied by the tri-party agent").

³ Report of Professor Paul Pfleiderer (Jan. 8, 2010) [hereinafter *Pfleiderer Report*] at 11, note 22. A 'mark' is a perunit amount that is used to value a position. The mark used to value a specific security on a given day for a particular purpose may be based on or set equal to an observable price, if available, or based on or set equal to a bid price or an offer price or some point between the two, assuming quotes are available. Where reliable prices are not available and credible quotes are not forthcoming, a mark must be based on an estimate of value, generally derived from a model or some other analysis of value.

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12. Prof. Pfleiderer's assertion that BoNY and JPM did not have the capability to accurately value the collateral, and therefore, their values should be dismissed as unreliable and is not supported by the facts.⁴

IV. **OPINIONS**

13. In his expert report, Prof. Pfleiderer concludes that:

> "none of the three sets of marks discussed in this subsection — the marks in Lehman's GFS system; JP Morgan Chase's custodial marks; and BNY/Mellon's custodial marks — provides a reliable basis for valuing the positions comprising the Repo Collateral."5

14. In support of his conclusion, Prof. Pfleiderer makes certain assumptions that BoNY and JPM did not have adequate insight into the collateral to be able to assign marks and accurately calculate values for the collateral:

> "There is every reason to believe that JP Morgan Chase and BoNY, in their roles as custodians, had no better insight and were no better informed than (and more likely were not as well informed as) Mr. King⁶ and his team. Thus, it is virtually certain that both JP Morgan Chase and Bank of New York encountered significant problems in characterizing, understanding, and marking at least some of the securities that comprised the Repo Collateral. Given that JP Morgan Chase had just a few days to understand and mark at least the positions backing the FRBNY's loans to LBI earlier in the week, and that BoNY had just one day (at most) to understand and mark the positions backing the Barclay's Fed Replacement Repo loan to LBI on Thursday, it is highly likely that at least some of their marks were, at a minimum, imprecise."⁷

15. Prof. Pfleiderer did not perform any independent analysis of the custodian banks' pricing processes, specifically (i.e., policies, procedures, fair value models, market data vendors, ability to leverage internal market making activities and accompanying system and applications used to

⁴ *Id.* at ¶46.

⁶ Stephen King, as head of Barclays' Principal Mortgage Trading Group ("PMTG"), was responsible for managing the "on-boarding" of most or all of the Repo Collateral positions, for valuing at least some of the positions that were transferred to Barclays, and, ultimately, for hedging, to the extent possible, the risks associated with the on-boarded positions.

Pfleiderer Report, supra, at ¶ 43 (emphasis added).

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mark collateral) and BoNY and JPM's operations in particular to support his above opinion. Without at least some understanding of JPM's and BoNY's pricing processes, Prof. Pfleiderer cannot possibly know or have a basis for assuming whether these institutions had insight into the appropriate marks for collateral or the level of accuracy of the collateral marks.

- 16. In fact, Prof. Pfleiderer did not even thoroughly read the contracts governing JPM's or BoNY's role as Tri-Party Repo agent:
 - Q. Do you have any understanding with respect to JPMorgan Chase what the scope was of their contractual duties to value securities as custodial agent?
 - A. Not in the basis of a thorough reading of a contract, no.
 - Q. Same question for Bank of New York. Do you have an understanding as to what their contractual duties were to value securities as a custodial agent?
 - A. Not on the basis of a thorough reading of the contract, no.
 - Q. Did you ask for a copy of J.P. Morgan's securities pricing policies?
 - A. I personally did not, and I don't know whether staff working in my direction did or did not.
 - Q. How about Bank of New York, did you ask to see their pricing policies?
 - A. Same answer as before.
 - Q. You did not?
 - A. I did not. And it may or may not be the case that staff working in my direction had looked at that.
 - Q. In the course of your work, you don't recall ever seeing such policies from J.P. Morgan or Bank of New York for this assignment?
 - A. I'm pretty sure I did not see any policies. I've looked at Barclays policies, but I don't believe I've seen either J.P. Morgan or Bank of New York policies.⁸

⁸ Deposition of Professor Paul Pfleiderer (Feb. 23, 2010), 170:19-172:2.

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17. It is clear is that Prof. Pfleiderer did not take the necessary steps to become sufficiently educated as to the duties of JPM and BoNY under the relevant contracts or their capabilities with respect to valuation of collateral securing Repo transactions. Accordingly, Prof. Pfleiderer could not have had enough information to make any determination as to JPM's or BoNY's valuation capabilities, and he was not in a position to form an opinion as to the reliability of their collateral marks.

18. According to the contracts that govern the repurchase agreements, a Tri-Party Repurchase Agent has a duty to value the collateral and the parties to the Tri-Party Agreement agree to use collateral marks supplied by the tri-party repo agent. The NY Fed has set out the responsibilities of tri-party repo agents in each repo agreement:

Fed repos are done via tri-party settlement, which means that the Fed and the primary dealers use a tri-party agent to manage the collateral. In a tri-party repo, both parties to the repo must have cash and collateral accounts at the same tri-party agent, which is by definition also a clearing bank. The *tri-party agent will ensure that collateral pledged is sufficient and meets eligibility requirements, and all parties agree to use collateral prices supplied by the tri-party agent.* [emphasis added]

19. Other authorities have described a tri-party repo agent's duties, as follows:

"The triparty clearing bank provides cash and collateral custody accounts for parties to the repo deal and collateral management services. These services include ensuring that pledged collateral meets the cash lenders' requirements, pricing collateral, ensuring collateral sufficiency...¹⁰" [emphasis added]

⁹ Repurchase and Reverse Repurchase Transactions, supra.

¹⁰ Tobias Adrian, Christopher R. Burke & James J. McAndrews, *The Federal Reserve's Primary Dealer Credit Facility*, Current Issues in Economics & Finance, Volume 15, No. 4, (Aug. 2009) [hereinafter *The Federal Reserve's Primary Dealer Credit Facility*] (emphasis added).

- 20. BoNY and JPM, as tri-party repo agents and custodians, had a contractual relationship with each party to the custody agreement.¹¹ Non-discretionary custodial activities are governed by such contractual relationships, according to the Office of the Comptroller of the Currency.¹²
- 21. Repurchase and custodial agreements normally specify, but are not limited to, the following standardized terms important to regulatory views of proper process and procedures for review of repurchase contracts for propriety and completeness, including:
 - Terms of transaction initiation, confirmation and termination;
 - Provisions for payments and transfers of securities;
 - Requirements for segregation of collateral securities;
 - Acceptable types and maturities of collateral securities;
 - Initial acceptable margin for collateral securities of various types and maturities;
 - Margin maintenance and collateral repricing provisions;
 - Provisions for collateral substitution;
 - Rights to interest and principal payments;
 - Events of default and the rights and obligations of the parties;
 - Required disclosures for transactions in which the seller retains custody of purchased securities;
 - Disclosures required by regulatory agencies; and
 - Persons authorized to transact business for the depository institution and its counterparty. 13
- 22. In practice, since 1995, most repurchase agreements are based upon standardized contracts available at the Securities Industry and Financial Markets Association (SIFMA), formerly known as the Bond Market Association. The Custodial Undertaking in Connection with Master Repurchase Agreement, by and among, Barclays Plc (buyer), Lehman Brothers Inc.

¹¹ Office of the Comptroller of the Currency, Administrator of National Banks, Comptroller's Handbook, Asset Management, Custody Services (2002) at 1-2 [hereinafter *Comptroller's Handbook*].

¹² *Id.*

¹³ Federal Financial Institutions Examination Council, Repurchase Agreements of Depository Institutions With Securities Dealers and Others; Notice of Modification of Policy Statement, 63 Fed. Reg. 6935-38 (Feb. 11, 1998) [hereinafter *Repurchase Agreements of Depository Institutions*].

¹⁴ The Bond Market Association & International Securities Market Association, TBMA/ISMA Global Master Repurchase Agreement (2000 Version) [hereinafter *TBMA/ISMA Global Master Repurchase Agreement*], available at http://archives1.sifma.org/agrees/global master repurchase agreement.pdf (last visited Mar. 15, 2010).

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(seller) and The Bank of New York Mellon (custodian), generally reflects these standardized terms.

- 23. Under the relevant agreement between BoNY, Barclays Plc and Lehman Brothers Inc., (the BoNY "Tri-Party Agreement")¹⁵ BoNY had a duty to determine the market value of securities, and in accordance with the agreement, notify the buyer and seller of any margin deficit, or excess.¹⁶
- 24. Additionally, each party to the BoNY tri-party agreement agreed that BoNY had the discretion to mark collateral and in the event that BoNY could not, "obtain the price of a particular Security from such pricing information services on any Business Day, the Market Value shall be as determined by Custodian [BoNY] in the reasonable exercise of its discretion...¹⁷".
- 25. James Hraska, the Lehman executive in charge of transferring collateral, confirmed his understanding that BoNY was Barclay's agent and custodian under the repo:
 - A. There were two tri-party agents involved. There was Chase, who was a triparty agent, who held our collateral with the Fed that we had pledged to the Federal Reserve, and then, in effecting the transaction, according to the tri-party terms, there was Bank of New York, who was the agent for Barclays.
 - Q. I see reference in some of the documents to BoNY tri-party?
 - A. Uh-huh.
 - Q. Is that the tri-party we're -- is that the transaction we're talking about?
 - A. Yes, that's correct. We moved the assets from JPChase, who was our tri-party agent, to Bank of New York, who was, as I mentioned, Barclays' agent. 18
- 26. Prof. Pfleiderer agrees that BoNY had a duty to mark the collateral when he states that:

¹⁵ Custodial Undertaking in Connection with Master Repurchase Agreement, By and Among, Barclays Plc (buyer), Lehman Brothers Inc. (seller) and The Bank of New York Mellon (custodian) [hereinafter *Tri-Party Agreement*].

¹⁶ Tri-Party Agreement, § 6 (A)(i)-(ii).

¹⁷ Tri-Party Agreement, §1, (K), "Market Value of Securities."

¹⁸ Deposition of James Hraska (Aug. 14, 2009), at 39: 9-24.

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assigning marks is a necessary element of services these banks provide as tri-party repo custodians...that both banks [JPM and BoNY] maintain procedures and pricing groups that enable them to provide this marking service quickly and with the level of accuracy required by their roles in tri-party repos for the types of securities typically eligible as collateral in tri-party repos at least under normal conditions, for normal commercial tri-party repos.¹⁹

- 27. BoNY and JPM are the two tri-party repo agents that control the vast majority of the tri-party repurchase custodial business in the United States and as discussed above, as tri-party Agents, they are responsible for marking collateral values each day (and sometimes intra-day) to ensure that the collateral is sufficient to secure the loans in accordance with their agreements and accompanying eligible securities schedules. As such, BoNY and JPM are required to have and maintain valuation capabilities to: (1) fulfill their contractual obligations; and (2) remain the dominant commercial tri-party repo agents serving the U.S. market.
- 28. In March 2008, the overall US repo market was \$4.5 trillion. At peak levels in 2008 triparty repos represented a significant majority of the repo market, when over US\$2.8 trillion in securities were being financed through tri-party repo transactions, many with very short maturities, and involving the daily transfer of nearly the full amount of associated cash and securities on the accounts of one or the other of the two tri-party "clearing banks": Bank of New York Mellon (BNY) and JPMorgan Chase (JPM)."²⁰ As of September 2007, the Bank of New York handled some \$1.5 trillion in tri-party balances each day."²¹

¹⁹ Pfleiderer Report, supra, at ¶41.

²⁰ Federal Reserve Bank of New York, Progress Report, Task Force on Tri-Party Repo Infrastructure Payments Risk Committee (Dec. 22, 2009) [hereinafter *Progress Report*], *available at* http://www.newyorkfed.org/prc/report_091222.pdf (last visited Mar. 15, 2010).

²¹ The Bank of New York Mellon, Increasing Tri-Party Repo and Securitization Transparency: A Roundtable Discussion, (2008) [hereinafter *Increasing Tri-Party Repo and Securitization Transparency*], available at http://www.bankofny.com/CpTrust/data/Tri Party Roundtable Brochure.pdf (last visited Mar. 15, 2010).

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V. THE TRI-PARTY REPO MARKET IS BOTH EXTENSIVE AND WELL-DEVELOPED

A. Tri-party Repo Definition and Market History

29. According to the NY Fed, "...a tri-party repo transaction involves three parties: a cash lender (the investor), a borrower that will provide collateral against the loan, and a tri-party clearing bank. The tri-party clearing bank provides cash and collateral custody accounts for parties to the repo deal and collateral management services. These services include ensuring that pledged collateral meets the cash lenders' requirements, pricing collateral, ensuring collateral sufficiency, and moving cash and collateral between the parties' accounts."²²

- 30. In a repurchase, or "repo", transaction, an investor can borrow cash for a short period from another party, using securities as collateral for the loan. Investors with large portfolios of securities can thus lend these out and earn a return over time.²³
- 31. According to the NY Fed, "there are two main types of settlement methods for repos: triparty and "delivery vs payment" or DVP. Fed repos are done via tri-party settlement, which means that the Fed and the primary dealers use a tri-party agent to manage the collateral. In a triparty repo, both parties to the repo must have cash and collateral accounts at the same tri-party agent, which is by definition also a clearing bank. The tri-party agent will ensure that collateral pledged is sufficient and meets eligibility requirements, and all parties agree to use collateral prices supplied by the tri-party agent."

²² Repurchase and Reverse Repurchase Transactions, supra.

²³ Financial Times Lexicon, "repo," *available at* http://lexicon.ft.com/term.asp?t=tri-party-repo (last visited Mar. 15, 2010).

²⁴ Repurchase and Reverse Repurchase Transactions, supra.

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32. The "tri-party repo has two important credit risk characteristics. First, it protects the creditor by taking margin from a borrower and lodging repo securities with a bank that has explicitly agreed to hold the securities for the benefit of the creditor. If the borrower fails to honor its repurchase commitment, the creditor can instruct the bank to sell the securities and apply the proceeds to satisfy its claim for repayment. Second, tri-party repo protects the borrower because the bank retains possession of the repo securities during the term of the repo, so the borrower can recover the securities promptly upon tender of the repurchase price. Thus, tri-party repo resolves the conflict inherent in conventional repos that borrowers and creditors cannot both be insulated from credit risk simultaneously."

- 33. One of the operational benefits of tri-party repos is that, regardless of the term of the loan, the clearing bank unwinds the transaction each morning, returning the cash to the investor's account and the collateral to the borrower's account. Then at the end of the day, the borrower pledges qualifying collateral back to the deal, which once priced in that day's marking process, determined as eligible, and deemed sufficient to meet the terms of the deal by the clearing bank, is moved to the investor's account while the cash is placed in the borrower's account. In this way, no specific collateral is committed for more than overnight. This arrangement allows borrowers to pledge whatever eligible collateral they have on hand each day, thus enabling them to manage their securities portfolios more effectively.²⁶
- 34. The securities loaned and the collateral provided are marked to market daily. When collateral exceeds the required margin the excess may be returned to the borrower. Alternatively, when the collateral value is less than the required margin, the borrower must provide additional

²⁵ Federal Reserve Bank of New York, *The Evolution of Repo Contracting Conventions in the 1980s*, 12 ECON. POL'Y REV. (May 2006), *available at* http://www.newyorkfed.org/research/epr/06v12n1/0605garb.html (last visited Mar. 15, 2010).

²⁶ Repurchase and Reverse Repurchase Transactions, supra.

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collateral. The parties will stipulate who is responsible for safekeeping the collateral; the lending agent bank is often selected for the job. Some borrowers may require that the collateral be kept with an independent third party. The party safekeeping the collateral may do that alone, or it may also be responsible for pricing the assets, making margin calls, and collecting income.

Responsibilities should be clearly set out in the agency agreement.²⁷

35. An important implication of this daily unwinding, however, is that the counterparty risk

for the investor shifts from its repo counterparty to the tri-party clearing bank, and the clearing

bank becomes exposed to the borrower. Overnight, the cash investor has the borrower's

collateral in its account and the borrower has the cash. If the borrower defaults overnight—say,

by filing for bankruptcy—the lender has the collateral in its account and thus is covered and the

clearing bank is not affected. Once the collateral and cash are returned in the morning, however,

the clearing bank, which has extended credit to the borrower to finance the original collateral

purchase, becomes exposed to the borrower. Consequently, the clearing bank needs to determine

each morning if it is comfortable accepting the exposure to the borrower that the reversal of the

transaction will create.²⁸

36. Thus, the importance of a tri-party repo agent's valuation capabilities are not simply to

protect the repo borrower and lender as part a contractual obligation, but also to protect the Tri-

Party Repurchase Agent's own balance sheet and regulatory capital while they are exposed to the

borrower during the daily unwinding process.

²⁷ Comptroller's Handbook, supra, at 33.

²⁸ Repurchase and Reverse Repurchase Transactions, supra.

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B. Tri-party Repo Market Size and Participants

37. In September 2008, "outstanding tri-party repos [on US markets] totaled \$2.5 trillion," of a total of roughly \$4.4 trillion total US repo market.²⁹ Individual repo sellers (borrowers) routinely financed more than US\$ 100 billion in securities via the tri-party mechanism. The largest single firm exposure peaked at more than US\$ 400 billion.³⁰

C. Tri-party Repo Collateral Types

- 38. The "Eligible Security Schedules to the Custodial Undertaking in Connection with Master Open Market Agreement (PCDF), Schedule of Eligible Securities, Bank of New York Mellon" (the "Schedules") govern the types of collateral available to the Lehman repo. In general, the Schedules list these types of securities, along with their corresponding haircuts (or margin percentage), as eligible:
 - Direct Obligations of the U.S. Treasury;
 - Direct Obligations of the Federally Related Entities (see schedule for further, detailed listing);
 - Agency and Private Label Mortgage-Backed Securities Passthroughs and CMOS; and
 - Municipal Securities, Corporate Securities, Asset Backed Securities (including CDOs, CBOs, CLOs), International Agencies, Money Market Instruments, Whole Loans, Equities and Equity Derivatives
- 39. Such asset classes are common to tri-party repo markets. Tri-party repo was already a well accepted market a decade ago. As early as March 2000, the president of the Bond Market Association ("BMA") wrote a letter to the NY Fed to maintain their participation in the market, begun as an emergency measure used to address financial crises in the late 1990s, noting: "The industry is increasingly moving toward tri-party repo as the preferred settlement

²⁹ The Federal Reserve's Primary Dealer Credit Facility, supra.

³⁰ Progress Report, supra.

³¹ BCI-EX-00297249.

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method for its funding operations. This move is largely driven by the cost savings benefits inherent in tri-party repo (as opposed to Delivery versus Payment ("DVP") repo), the increased ease of execution of repo trades done on a tri-party basis, as well as the possession and control of collateral in a separate custodial account."³²

- 40. The BMA then recommended the NY Fed maintain its expansion of acceptable collateral. The BMA strongly supported the expansion in 2000 of the "securities eligible as collateral in the repurchase transactions undertaken by the FRBNY in the management of banking system reserves. In particular, the expansion of eligible collateral to encompass structured agency securities and adjustable rate mortgage pass-through securities was viewed by the dealer community as an extremely positive development." BMA urged the NY Fed to expand acceptable collateral to (i) agency securities; (ii) passthrough mortgage securities; (iii) commercial and multifamily mortgage-backed securities; (iv) REMICS; (v) corporate securities; and (vi) asset backed securities.³³
- 41. By 2005, "nontraditional" collateral had already become a substantial portion of primary dealers' repo transactions. According to economists at the NY Fed, by January 2005, "less liquid" collateral consisting of corporate securities, as well as mortgage-backed and asset-backed securities accounted for roughly 47 percent of primary dealers' repo transactions. By January 2006, that proportion reached around 48 percent; by January 2007, it was 50 percent; and by January 2008, it approached 55 percent. The market peaked at just below 60 percent

³² Memorandum from the Bond Market Association regarding Continuation of FRBNY's Ability to Engage in Triparty Repo, to Peter R. Fisher, Executive Vice President, Markets Group, Federal Reserve Bank of New York, (Mar. 14, 2000).

³³ *Id.*

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toward the end of 2008, falling after the Lehman crisis to a low of roughly 45 percent, but rebounding quickly to almost 50 percent.³⁴

42. Far from being new or esoteric, therefore, nontraditional or illiquid collateral had been

commonly acceptable in tri-party repo arrangements both in private and Central Bank markets

for well over a decade at the time of the Lehman bankruptcy, and comprised a substantial portion

of the market in the US since at least 2005.

43. A pillar of the repo and tri-party repo market is the concept that collateral must be at least

equal to the amount loaned. In particular, the "acquisition of a repurchase agreement may be

deemed to be an acquisition of the underlying securities, provided the obligation of the seller to

repurchase the securities from the investment company is Collateralized Fully..."Collateralized

fully" in the case of a repurchase agreement means, among other things, that the value of the

securities collateralizing the repurchase agreement (reduced by the transaction costs (including

loss of interest) that the investment company reasonably could expect to incur if the seller

defaults) is, and during the entire term of the repurchase agreement remains, at least equal to the

Resale Price provided in the agreement."35 The definition put forth in the Investment Company

Act demonstrates the foundation of the Repo transaction; namely, that collateral must equal the

amount loaned. The tri-party repo agent must, therefore, ensure it has developed adequate

processes to monitor the value of pledged collateral or risk the inability to conduct business as an

agent.

³⁴ The Federal Reserve's Primary Dealer Credit Facility, supra.

³⁵ Investment Company Act of 1940 at Rule 5b-3.

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D. The Accuracy of Custodial Marks Has Implications for Custodian Risk and Regulatory Scrutiny

- 44. For banking law purposes, the authority of national banks to engage in custody activities like those involved in tri-party repo derives from the general business of banking and incidental powers language in 12 U.S.C. § 24. The Supreme Court has recognized that this authority is a broad grant of power to engage in the business of banking and that the concept evolved over time as business practices developed and changed.³⁶
- 45. The custody activities of national banks developed from providing safekeeping and settlement services to customers for a fee, and historically were viewed as permissible incidental activities under 12 U.S.C. § 24 often were in conjunction with the delivery of fiduciary services.³⁷ The OCC has indicated that it does not treat non-discretionary custodial activities as fiduciary, and that those activities are authorized under 12 U.S.C. § 24.³⁸ Services traditionally provided include the settlement, safekeeping, and reporting of customers' marketable securities and cash. A custodian also may invest cash balances as directed, collect income, process corporate actions, price securities positions, and provide recordkeeping services.
- 46. A custodian acts only as an agent of the related parties. A custodian typically does not have discretion to select the investment vehicles. Instead, standing instructions in the custody agreement usually direct that selection.³⁹ The OCC goes to great lengths to spell out specifically that the custodian is not a trustee, and "generally is not subject to the strict fiduciary standards

³⁶ See Nationsbank v. Variable Annuity Life Ins. Co., 513 U.S. 251 (1995).

³⁷ Comptroller's Handbook, supra, at 1-2.

³⁸ See, e.g., Office of the Comptroller of the Currency Interpretive Letter No. 769 from Julie L. Williams, Chief Counsel, to John H. Huffstutler, Senior Vice President and Chief Regulatory Counsel, Bank of America National Trust and Savings Association (Jan. 28, 1997), available at http://www.occ.treas.gov/interp/mar97/int769.pdf; 61 Fed. Reg. at 68545. [hereinafter *OCC Interpretive Letter #769*]

³⁹ See Nationsbank v. Variable Annuity Life Ins. Co., 513 U.S. 251 (1995).

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that govern the relationship between a trustee and beneficiary."⁴⁰ Nonetheless, "a custodian may perform functions that are fiduciary in nature. For example, a custodian exercising discretion in managing a securities lending cash collateral pool would be acting in a fiduciary capacity and must comply with the relevant provisions of 12 C.F.R. 9."⁴¹

- 47. Custody relationships are, therefore primarily contractual in nature and are essentially directed agencies. The customer is the principal, and the custodian is the agent. The custody agreement, itself, therefore is important as a risk management tool. A well-specified custody agreement should "clearly establish the custodian's duties and responsibilities." Custody agreements should be "standardized when possible, and any deviations from the standardized agreement should be reviewed prior to acceptance."
- 48. As discussed previously, industry standard repurchase and custody agreements normally specify, but are not limited to:
 - Terms of transaction initiation, confirmation and termination;
 - Provisions for payments and transfers of securities;
 - Requirements for segregation of collateral securities;
 - Acceptable types and maturities of collateral securities;
 - Initial acceptable margin [haircuts] for collateral securities of various types and maturities;
 - Margin [haircut] maintenance and collateral repricing provisions;
 - Provisions for collateral substitution;
 - Rights to interest and principal payments;
 - Events of default and the rights and obligations of the parties;
 - Required disclosures for transactions in which the seller retains custody of purchased securities;
 - Disclosures required by regulatory agencies; and
 - Persons authorized to transact business for the depository institution and its counterparty. 43

⁴⁰ OCC Interpretive Letter #769, supra.

⁴¹ Comptroller's Handbook, supra, at 11.

⁴² Comptroller's Handbook, supra, at 1-2, 8.

⁴³ Repurchase Agreements of Depository Institutions, supra.

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- 49. In practice, most repurchase agreements since 1995 have been based upon standardized contracts available at the Securities Industry and Financial Markets Association (SIFMA), formerly known as the Bond Market Association.⁴⁴
- 50. As custody services are contractual in nature, a bank must ensure compliance with the provisions of all applicable agreements.⁴⁵ Typically, the custodian marks securities to market daily in both securities lending and tri-party repurchase agreements. Such marking is an integral part of the contractual arrangements that control the risk assumed by both lender and borrower.

When collateral exceeds the required margin, the excess may be returned to the borrower. Alternatively, when the collateral value is less than the required margin, the borrower must provide additional collateral. The parties will stipulate who is responsible for safekeeping the collateral; the lending agent bank is often selected for the job. Some borrowers may require that the collateral be kept with an independent third party. The party safekeeping the collateral may do that alone, or it may also be responsible for pricing the assets, making margin calls, and collecting income. Responsibilities should be clearly set out in the agency agreement.⁴⁶

51. 12 C.F.R. 12 establishes minimum recordkeeping and confirmation requirements for securities transactions handled by national banks. The regulation also requires that banks establish policies and procedures covering supervision of securities transactions. Effective internal controls are essential to a bank's management of the risks found in custody services. The rights and the obligations of a pledgee of a certificated security or of a claimant to a security interest in a security or security entitlement are determined by Uniform Commercial Code

⁴⁴ TBMA/ISMA Global Master Repurchase Agreement, supra.

⁴⁵ Comptroller's Handbook, supra, at 4.

⁴⁶ Comptroller's Handbook, supra, at 33.

⁴⁷ Comptroller's Handbook, supra, at 10.

⁴⁸ Comptroller's Handbook, supra, at 6.

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("UCC") Articles 8 and 9. Although UCC Article 9 requires that "the secured party shall keep the collateral identifiable," fungible collateral may be commingled.⁴⁹

- 52. Still, the above are primarily compliance and reputational risk issues, not fundamental credit risk issues. Nonetheless, as discussed above, a custodian can expose itself to credit risk at various stages of the tri-party repurchase operational process.
- 53. In particular, credit risk is taken on by the custodian when the tri-party repurchase agreement is unwound and recast each day. "Overnight, the cash investor has the borrower's collateral in its account and the borrower has the cash. If the borrower defaults overnight—say, by filing for bankruptcy—the lender has the collateral in its account and thus is covered and the clearing bank is not affected. Once the collateral and cash are returned in the morning, however, the clearing bank, which has extended credit to the borrower to finance the original collateral purchase, becomes exposed to the borrower. Consequently, the clearing bank needs to determine each morning if it is comfortable accepting the exposure to the borrower that the reversal of the transaction will create.⁵⁰
- 54. Credit risk also arises in custodial activities when a counterparty does not fulfill its contractual part of a transaction and the bank has to extend or commit its funds to complete the transaction.⁵¹ "In several highly publicized cases in the mid-1990s banks absorbed significant losses from the management of cash collateral to protect customer relationships and their own reputations."⁵²
- 55. Sale and repurchase agreements where the credit risk remains with the bank receive a Basel Credit Conversion Factor (referred to in the industry as a CCF) of 100%. Hence, clearing

⁴⁹ UCC Article 9, available at http://www.law.cornell.edu/ucc/9/9-207.html (last visited Mar. 15, 2010).

⁵⁰ The Federal Reserve's Primary Dealer Credit Facility, supra [emphasis added].

⁵¹ Comptroller's Handbook, supra, at 44.

⁵² Comptroller's Handbook, supra, at 35.

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banks subject to Basel--Like requirements--such as BoNY and JPM--tend to have stringent

policies and procedures regarding both investment credit risk and counterparty credit risk

evaluation that figure into their assessment an implementation of valuation and haircut processes.

56. Accordingly, BoNY describes its capabilities as follows: "The Bank of New York

Mellon's underlying infrastructure... is based on a proprietary collateral management system

designed to efficiently handle all asset types denominated in any currency and targeted toward a

global customer base. It can process a wide array of transaction types, including tri-party

repurchase agreements, portfolio swaps, collateralized loans, swap collateralization deals and

more."53

57. It is my conclusion therefore that both BoNY and JPM were well qualified to value the

collateral at issue. Moreover, they were obligated contractually and under applicable law and

regulation to maintain adequate processes and safeguards to be able to do so under the time

constraints that are present in this market.

Submitted by

John Schneider

March 15, 2010

⁵³ Increasing Tri-Party Repo and Securitization Transparency, supra.

Appendix I Documents Relied Upon Documents in the Record Depositions Deponent 8/14/2009 James Hraska Paul Pfleiderer 2/23/2010 Deposition Exhibits 495 - Debtor's Motion for an Order, Pursuant to Fed. R. Civ. P. 60 and Fed. R. Bankr. P. 9024, Modifying the September 20, 2008 Sale Order and Granting Other Relief, Sept. 15, 2009 633A - Expert Report of Prof. Paul Pfleiderer, Volume 1 634A - Expert Report of Prof. Paul Pfleiderer, Volume 2 Other Documents Beginning Bates **Ending Bates** Eligible Security Schedules to the Custodial Undertaking in Connection with Master Open Market Agreement (PCDF), BCI-EX-Schedule of Eligible Securities, Bank of New York Mellon, 00297249 Motion of Official Committee of Unsecured Creditors of Lehman Brothers Holdings Inc., et al., Pursuant to 11 U.S.C. § 105(a), Fed. R. Civ. P. 60(b), and Fed. R. Bankr. P. 9024, for Relief from Order Under 11 U.S.C. §§ 105(a), 363, and 365 and Federal Rules of Bankruptcy Procedure 2002, 6004 and 6006, dated Sept. 15, 2009 The Trustee's Motion for Relief Pursuant to the Sale Orders or, Alternatively, for Certain Limited Relief Under Rule 60(b), Sept. 15, 2009 Documents that are Publicly Available 61 Fed. Reg. at 68545 Custodial Undertaking in Connection with Master Repurchase Agreement, By and Among, Barclays Plc (buyer), Lehman Brothers Inc. (seller) and The Bank of New York Mellon (custodian). Federal Financial Institutions Examination Council, Repurchase Agreements of Depository Institutions With Securities Dealers and Others; Notice of Modification of Policy Statement, 63 Fed. Reg. 6935-38 (Feb. 11, 1998) Federal Reserve Bank of New York, Progress Report, Task Force on Tri-Party Repo Infrastructure Payments Risk Committee (Dec. 22, 2009), available at http://www.newyorkfed.org/prc/report_091222.pdf (last visited Mar. 15, 2010). Federal Reserve Bank of New York, Repurchase and Reverse Repurchase Transactions, available at http://www.newyorkfed.org/aboutthefed/fedpoint/fed04.html (last visited Mar. 15, 2010). Federal Reserve Bank of New York, The Evolution of Repo Contracting Conventions in the 1980s, 12 Econ. Pol'y Rev. (May 2006), available at http://www.newyorkfed.org/research/epr/ 06v12n1/0605garb.html (last visited Mar. 15, 2010). Financial Times Lexicon, "repo," available at http://lexicon.ft.com/term.asp?t=tri-party-repo (last visited Mar. 15, 2010). Investment Company Act of 1940 at Rule 5b-3. Memorandum from the Bond Market Association regarding Continuation of FRBNY's Ability to Engage in Tri-party Repo, to Peter R. Fisher, Executive Vice President, Markets Group, Federal Reserve Bank of New York, (Mar. 14, 2000). Nationsbank v. Variable Annuity Life Ins. Co., 513 U.S. 251 (1995). Office of the Comptroller of the Currency Interpretive Letter No. 769 from Julie L. Williams, Chief Counsel, to John H. Huffstutler, Senior Vice President and Chief Regulatory Counsel, Bank of America National Trust and Savings Association (Jan. 28, 1997), available at http://www.occ.treas.gov/interp/mar97/int769.pdf. Office of the Comptroller of the Currency, Administrator of National Banks, Comptroller's Handbook, Custody Services (Jan. 2002) The Bank of New York Mellon, Increasing Tri-Party Repo and Securitization Transparency: A Roundtable Discussion, (2008), available at http://www.bankofny.com/CpTrust/data/ Tri_Party_Roundtable_Brochure.pdf (last visited Mar. 15, 2010). The Bond Market Association & International Securities Market Association, TBMA/ISMA Global Master Repurchase Agreement (2000 Version, available at http://archives1.sifma.org/agrees/ global master repurchase agreement.pdf (last visited Mar. 15, 2010). Tobias Adrian, Christopher R. Burke & James J. McAndrews, The Federal Reserve's Primary Dealer Credit Facility, 15 Current Issues in Econ. & Fin. 6 (Aug. 2009. UCC Article 9, available at http://www.law.comell.edu/ucc/9/9-207.html

APPENDIX II: CURRICULUM VITAE



John J. Schneider, CPA

John J. Schneider, CPA Managing Director

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Education

B.S., Accounting University of Scranton Scranton, PA

M.B.A. – Executive Program, Boston University Boston, MA

Current Position

John J. Schneider is a Managing Director in the Boston office of Navigant Consulting.

Mr. Schneider is a financial service executive with 23 years of compliance, risk management, operational redesign and internal audit experience in investment management, capital markets, and banking.

Professional Experience

Navigant Consulting, Inc., Boston, MA (2003-Present)

Managing Director – Regulatory Advisory Services

Managing Director with Navigant Consulting with over 23 years of experience in investment management, banking, capital markets.

- Lead the Regulatory Advisory Services practice, which has required coordinating teams to service over 100 engagements for Mutual Funds, Hedge Funds, Private Equity, Broker Dealers, Banking, and Managed Accounts organizations.
- Provided oversight to teams responsible for evaluating the methodologies employed to distribute unrealized losses for certain impaired assets and process in-kind distributions of collateral maintained for Securities Lending clients.
- Lead a team responsible for evaluating and analyzing the efficacy of controls designed to comply with regulation SHO.
- Advised clients on establishing and refining governance structures to achieve the appropriate level of oversight and risk mitigation.
- Developed methodologies for risk assessing and testing AML programs in accordance with the requirements of the Patriot Act.

- Created the methodologies for developing and implementing compliance programs for mutual fund complexes and investment advisors pursuant to 38a-1 and 206(4)-7.
- Managed teams responsible for performing Anti-Money Laundering reviews, providing management with advice to improve compliance policies, procedures and processes.
- Managed teams responsible for analyzing subscription and redemption activity for late trading and market timing.

Representative Clients

- JPMorgan Investment Advisors, Inc
- Janus Capital Management
- Prudential Investments with the Jennison Dryden Funds & Strategic Partners Funds
- Apollo Management with the Apollo Investment Corporation (a Business Development Company under the Investment Company Act of 1940)
- Apollo Capital Management with the Strategic Value Fund (onshore/offshore)
- Babson Capital Management, LLC.

Brown Brothers Harriman & Co., Boston, MA (1998-2003)

<u>Vice President – Regional Audit Director</u>

Managed professional teams in Boston and New York covering Investment Management and Investor Services, which represented 60% of the overall audit services. Specific responsibilities included:

- Developing and employing a risk-based financial, technology and operational audit plan for the US and Europe.
- Coordinating audit activities performed by the external auditors for SAS70 and year-end financial reviews.
- Ensuring the Firm's preparedness and coordinating external regulatory reviews conducted by the SEC, NYSE and State Bank examiners (New York, Massachusetts, and Pennsylvania).
- Evaluated the implementation of a Securities Lending program for custody clients.
- Member of several senior management oversight committees: Sarbanes-Oxley Committee, Know Your Customer Committee, Inter-Office Coordinating

Committee, and the BBH Funds Steering Committee. These committees were designed to monitor business model design and reengineering efforts, within the Firm.

• Advising the partnership on the cost versus benefits, compliance requirements and risks associated with the firm's products and services.

Selected Achievements:

- Gained 10% efficiency in completing the audit plan year over year during the first three years of managing the audit team.
- Partnered with management on several business initiatives including the development and implementation of Know Your Customer and credit polices, Sarbanes-Oxley, BBH Firm Authorities, self-assessments and risk management.
- Evaluated and developed policies, procedures and strategic systems initiatives for compliance with Know Your Customer, Anti-Money Laundering and Patriot Act requirements. Led an executive committee in the evaluation and approval of a firm-wide Anti-Money Laundering system, compliance resources, and business line oversight requirements. Active participation on the Firm-wide Compliance Committee and several subcommittees designed to provide recommendations and strategic solutions for compliance requirements.
- Developed and implemented a comprehensive quarterly certification process in response to Sarbanes-Oxley requirements. Developed policies and procedures for performing quarterly self-assessments, formed a Due Diligence Committee and standard certification letters for the different service levels provided to clients.
- Led a firm-wide initiative to analyze current practices, assess peer practices, and develop, present, and implement a global approach for the establishment, delegation and ongoing support for monitoring and controlling internal and external authorities. Presentations and working groups were developed for information gathering, education, and communication of the philosophy, principles, and status of the project.
- Performed several consultative projects at the request of the partnership to provide recommendations for cost reduction, enhance control effectiveness, and improve operational efficiencies. In certain instances, the implemented recommendations resulted in cost reductions

of \$200K-300K. Other initiatives resulted in a reduction of independent audit fees (\$10K-50K per engagement).

Citibank, N.A., New York, NY (1989-1998)

Vice President – Global Investments and Investment

Finance Products Compliance Manager

- Created the compliance function for the monitoring and supervision of Investment products globally.
- Advised management on regulatory issues and coordinated the infrastructure development of new products and business initiatives.
- Established compliance procedures for a Section 20 broker/dealer.
- Coordinated the development and supervision of structured derivative products.
- Developed procedures for the risk management of derivative and complex structured products.
- Developed procedures for compliance with the Interagency guidelines (e.g., Know Your Customer, Anti-Money Laundering, Suitability, Investment Objective Setting).
- Created policies and procedures for various Investment Finance activities, including fair lending, global real estate and risk management.

<u>Vice President – Audit Manager</u>

- Promoted and rotated through business areas providing a significant product exposure: World Wide Security Services (1989-1991), Global Cash Management and Corporate Financial Control (1991-1992), Global Trade Finance (1993-1995), and Private Banking Group International Quality Delivery/Technology (1995-1996).
- Designed, planned, and coordinated financial, technology and operational audits.
- Prepared audit plans and programs setting forth scopes, objectives, and budgets.
- Evaluated business practices and controls resulting in appropriate recommendations to senior management.
- Managed 6-8 staff auditors.
- Chaired a committee (10 professionals) that performed testing and training of Audit Methodology and Corporate Audit Software for a region of 173 auditors.

Scholastic Inc., Lyndhurst, NJ (1988-1989) Senior Auditor

Coordinated and participated on financial, operational, and technology reviews with the external auditors (Arthur Young). Performed weekly cash flow analyses for funding purposes.

Price Waterhouse, Morristown, NJ (1987-1988) Staff Auditor

Responsible for audit and compilation assignments for diversified clientele with sales ranging from \$3 to \$70 million. Specifically, these responsibilities included the review and analysis of internal controls, balance sheet, profit and loss statements, and physical inventory observations.

Deposition/Testifying Experience:

C. Clark Hodgson, Jr., Receiver for Philadelphia Alternative Asset Management Company, LLC, and its partners, affiliates, subsidiaries and related entities v. Man Financial Inc, Thomas Gilmartin, Sep Alavi, William Wambach, Timothy Braun, Jody Mcmillan, James Zamora and Monica Rodriguez

Published Articles:

Texas Hedge Fund Association Newsletter - Six Steps to Help Six Key Steps to Help Private Fund Advisors Prepare for Regulatory Change - November 11, 2009

Complinet - Six Steps to Help Private Fund Advisors Prepare for Regulatory Change - November 10, 2009

Compliance Week - Risk and Regulation Roundtable Discussion Summary - October 9, 2009

Risk Management Association Journal - How Increased Regulation Will Impact Market Participants - May 1, 2009 NCI Investigations Quarterly - The Risk Management Paradox - March 25, 2009

KYC360.com - Risk Management Paradox - April 13, 2009 Navigant Consulting - Due Diligence: Expectations in a Rapidly Changing World - April 1, 2009

Complinet - Reputation is Everything: How to Protect Your Reputation and Shore up investor Confidence - March 13, 2009

US Banker - Impact of Regulation on Credit Default Swaps Editorial - November 15, 2008

Strategic Finance – Finding Your Compliance Sweet Spot – August 2007

Strategic Finance - Falling into Line - May 2006

MFA Reporter - Annual Compliance Reviews: Lessons Learned - May 2006

MFA Reporter - FAQs - Hedge Fund Advisor Compliance & New SEC registration Rule of April 2005